

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21*	1
		ILLINOIS	CONTRACT NO. 66M02	

*21 + 7 = 28 TOTAL SHEETS

D-93-069-21

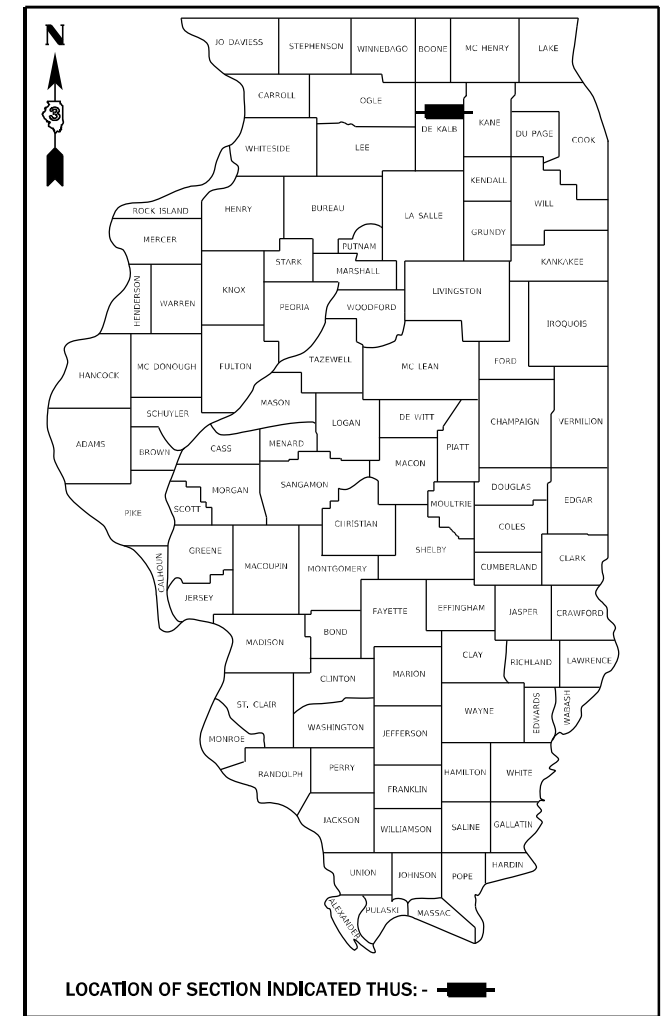
- INDEX OF SHEETS**
1. COVER SHEET
 2. GENERAL NOTES
 - 3 - 5. SUMMARY OF QUANTITIES
 6. TYPICAL SECTIONS
 7. SCHEDULES
 8. TRAFFIC CONTROL AND PROTECTION FOR STAGE I CONSTRUCTION
 9. TRAFFIC CONTROL AND PROTECTION FOR STAGE II CONSTRUCTION
 - 10 - 19. STRUCTURE REPAIR DETAILS
 20. PAVEMENT MARKING
 21. TEMPORARY INFORMATION SIGNING
 - 22-28. EXISTING STRUCTURE PLANS (FOR INFORMATION ONLY)

- STANDARDS**
- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 - 001001-02 AREAS OF REINFORCEMENT BARS
 - 001006 DECIMAL OF AN INCH AND OF A FOOT
 - 482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT
 - 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
 - 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 - 701011-04 OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
 - 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
 - 701206-05 LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
 - 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 - 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
 - 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
 - 701901-08 TRAFFIC CONTROL DEVICES
 - 704001-08 TEMPORARY CONCRETE BARRIER

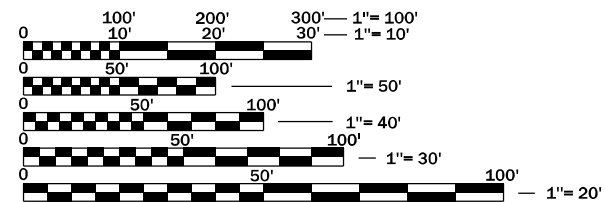
PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 17 (IL 64) SECTION (125BR)BRR BRIDGE REPAIRS DEKALB COUNTY

C-93-103-21



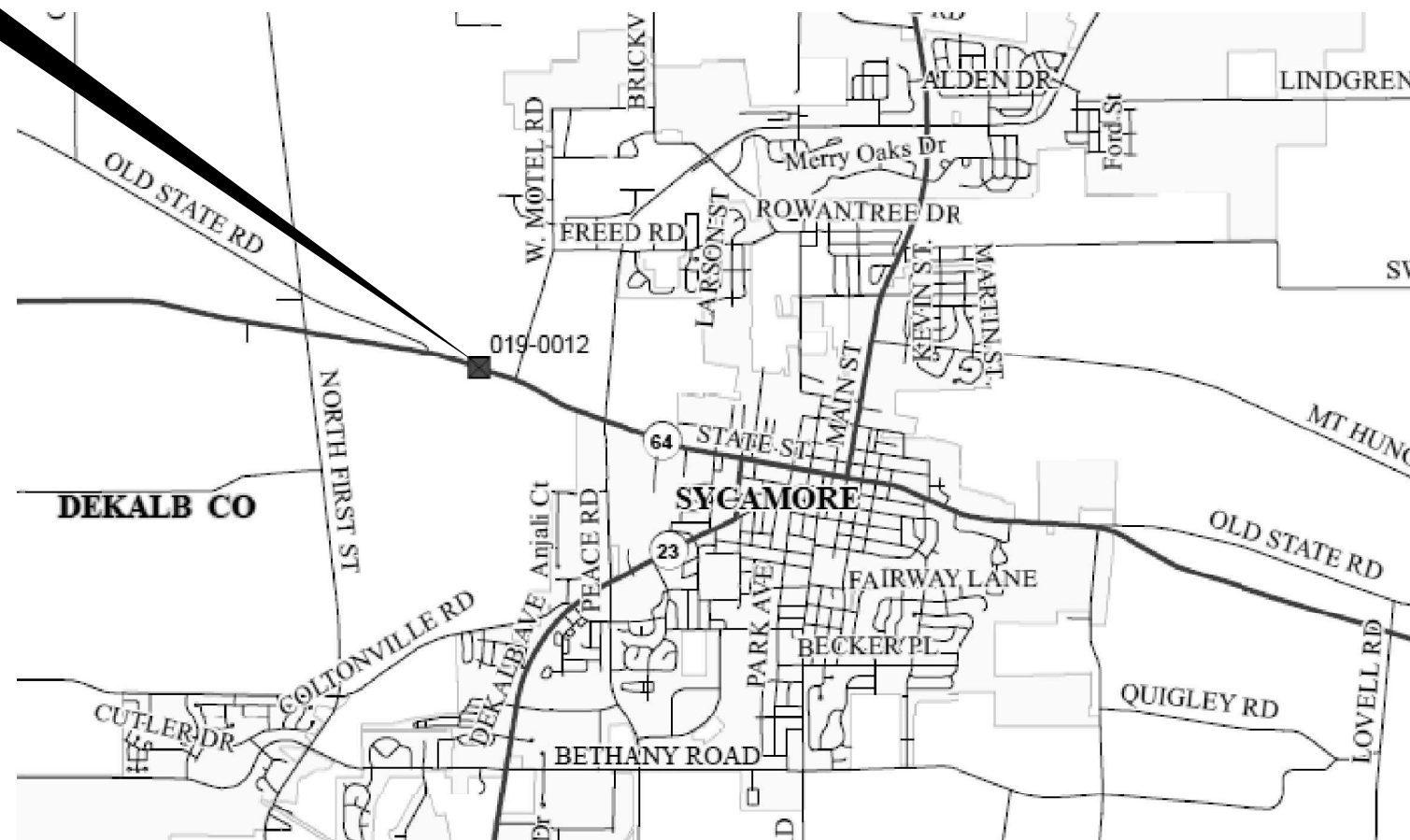
PROJECT LOCATION
STRUCTURE NO. 019-0012
CARRYING F.A.P. ROUTE 17 (IL 64)
OVER THE KISHWAUKEE RIVER
1.5 MILES WEST OF JCT. IL 23



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: YOGESH PATEL P.E.
UNIT CHIEF: RON WOODSHANK
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66M02



POINT LOCATION

FUNCTIONAL CLASSIFICATION

URBAN OTHER PRINCIPAL ARTERIAL

F.A.P. ROUTE 17 (IL 64)

2019 ADT = 8150

P.V. 83.2 % S.U. 10 % M.U. 6.4 %

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21, 2022
[Signature] REGIONAL ENGINEER

May 13, 2022 *[Signature]*
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 *[Signature]*
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

GENERAL NOTES

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

COMMITMENTS

THE ENGINEER SHALL SUBMIT TO THE BRIDGE OFFICE IN SPRINGFIELD A COPY OF THE "AS-BUILT" DECK SLAB REPAIR" PLANS WHEN ALL DECK SLAB REPAIRS HAVE BEEN COMPLETED. CONTACT PERSON IS VICTOR VELIZ PHONE (217) 782-2708 EMAIL Victor.Veliz@illinois.gov

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

PREPARED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: _____

EXAMINED BY: _____
DISTRICT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	2
			CONTRACT NO. 66M02	
		ILLINOIS	FED. AID PROJECT	

USER NAME = woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - YP	REVISED -
PLOT DATE = 3/21/2022	DATE - 8/6/2021	REVISED -

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE 100% STATE	
				BRIDGE	
				0047	
				S.N. 019-0012	
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	770	770	
50102400	CONCRETE REMOVAL	CU YD	12	12	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12	12	
50300300	PROTECTIVE COAT	SQ YD	92	92	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1860	1860	
50800515	BAR SPLICERS	EACH	24	24	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	98	98	
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50	50	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	200	200	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2	
67100100	MOBILIZATION	L SUM	1	1	

*= SPECIALTY ITEM

MODEL: Default
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PLOT SCALE = 100.0000' / in.	DRAWN - RW	REVISED -				17	(125BR)BRR	DEKALB	21	3	
PLOT DATE = 3/22/2022	CHECKED - YP	REVISED -		SCALE:		SHEET 1 OF 3 SHEETS		STA. TO STA.		CONTRACT NO. 66M02	
DATE - 8/6/2021	REVISOR -	REVISED -						ILLINOIS FED. AID PROJECT			

CONSTRUCTION CODE
 CONTRACT MAINTENANCE
 100% STATE
 BRIDGE
 0047
 S.N. 019-0012

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300	300
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1527	1527
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	181	181
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	594	594
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	6	6
X6333500	TRAFFIC BARRIER TERMINAL REMOVAL	EACH	4	4
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1

* = SPECIALTY ITEM

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PLOT DATE = 3/21/2022	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

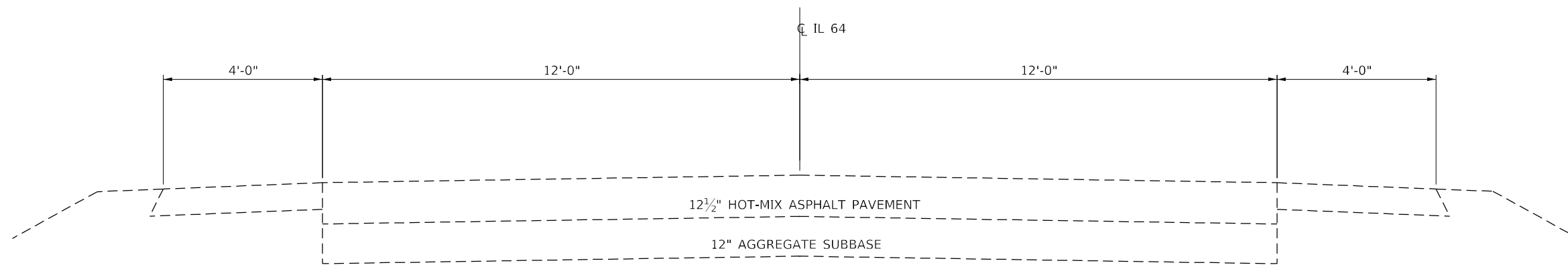
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	4
			CONTRACT NO. 66M02	
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				CONTRACT MAINTENANCE 100% STATE	BRIDGE
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	29		29
Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1		1
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	54		54
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42		42

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DRAWN - RW	REVISED -	17				(125BR)BRR	DEKALB	21	5		
PLOT SCALE = 100.0000' / in.	CHECKED - YP	REVISED -		SCALE:		SHEET 3 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 66M02		
PLOT DATE = 3/21/2022	DATE - 8/6/2021	REVISED -		ILLINOIS FED. AID PROJECT							



TYPICAL SECTION

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PLOT DATE = 4/20/2022	DATE - 8/6/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	6
CONTRACT NO. 66M02			ILLINOIS FED. AID PROJECT	

SCHEDULES - TRAFFIC CONTROL

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701201	TRAFFIC CONTROL AND PROTECTION STANDARD 701321	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY NON-DIRECTIVE NARROW TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE NON-DIRECTIVE NARROW TEST LEVEL 3
	L SUM	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH
STAGE I	0.5	0.5	0.5	6	350		2	
STAGE II	0.5	0.5	0.5			300		2
TOTALS	1	1	1	6	350	300	2	2

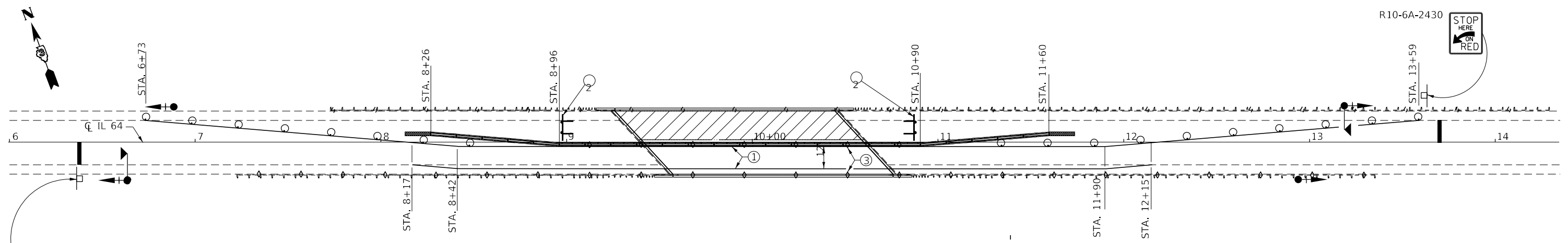
SCHEDULES - GUARDRAIL

LOCATION	TRAFFIC BARRIER TERMINAL REMOVAL	STEEL PLATE BEAM GUARDRAIL TYPE A 6' POSTS	TRAFFIC BARRIER TERMINAL TYPE 6	LINEAR DELINEATOR PANELS 4"
	EACH	FOOT	EACH	EACH
NW CORNER	1	12.5	1	2
SW CORNER	1	12.5	1	3
NE CORNER	1	12.5	1	3
SE CORNER	1	12.5	1	5
TOTALS	4	50	4	13

SCHEDULES - PAVEMENT MARKING

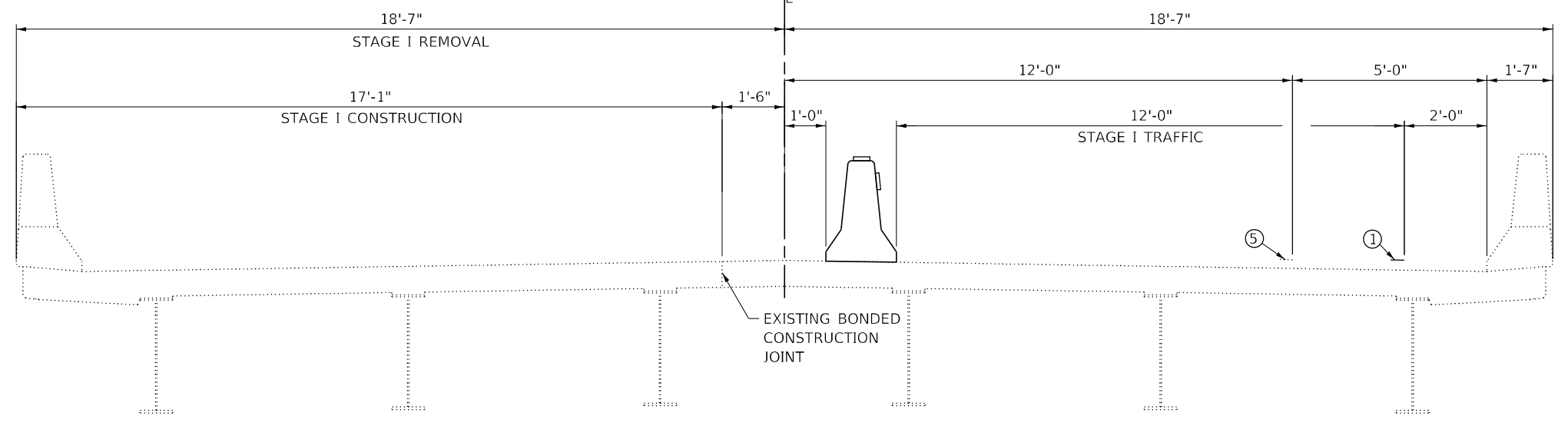
LOCATION	PAVEMENT MARKING REMOVAL WATER BLAST			POLYUREA PAVEMENT MARKING TYPE I LINE 4"		POLYUREA PAVEMENT MARKING TYPE I LINE 6"
	LINE 4"	LINE 6"		NPZ	EDGE	CL
	NPZ	EDGE	CL	NPZ	EDGE	CL
	YELLOW	WHITE	SKIP-DASH	YELLOW	WHITE	
	SQ FT			FOOT		FOOT
STAGE I	239	131	91			
STAGE II		133		725	802	180
SUBTOTALS	239	264	91	725	802	180
TOTALS			594		1527	180

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STOP HERE ON RED
R10-6A-2430

- ① TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ② TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ③ GUARDRAIL / BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARDS 704001 AND 782006.
- ④ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6' FROM EDGE OF SHOULDER.
- ⑤ PAVEMENT MARKING REMOVAL



- ① PAVEMENT MARKING REMOVAL
- ② TEMPORARY PAVEMENT MARKING - LINE 4" (EDGE LINE, WHITE)

STAGING DETAIL
STAGE I
LOOKING EAST

GENERAL NOTES

THIS DETAIL SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

THIS STANDARD IS USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A BRIDGE. TRAFFIC SIGNALS AND A POSITIVE BARRIER ARE REQUIRED.

TRAFFIC SIGNALS SHALL BE OPERATIONAL ONLY WHEN ALL TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

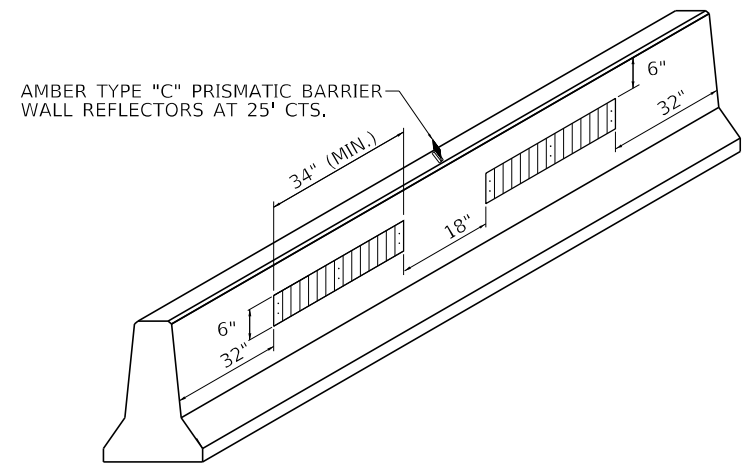
EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

LEGEND

- WORK ZONE
- BARRICADES, TYPE III WITH STEADY BURNING LIGHT
- SIGN
- IMPACT ATTENUATOR, RELOCATE, (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
- RELOCATED TEMPORARY CONCRETE BARRIER
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE AND MICROWAVE DETECTOR (INSTALLED FOR STAGE I)
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE (INSTALLED FOR STAGE I)



LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER

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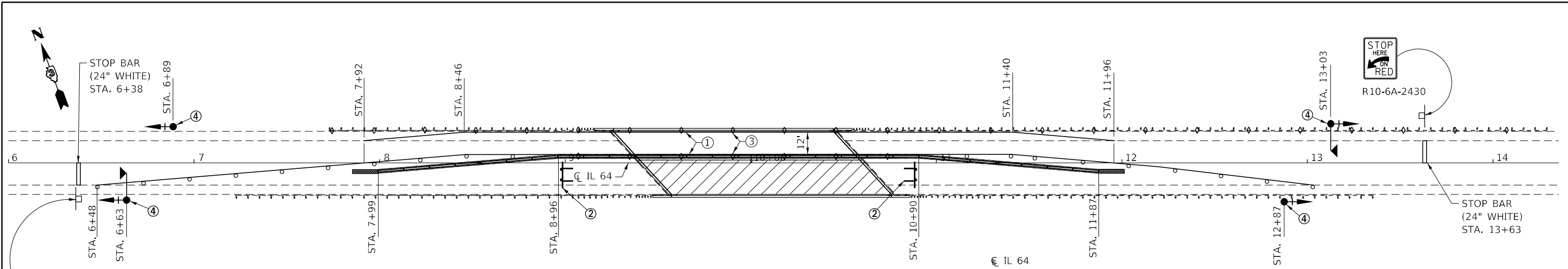
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	DRAWN - RW	REVISED -
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PLOT DATE = 4/20/2022	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
STAGE II CONSTRUCTION

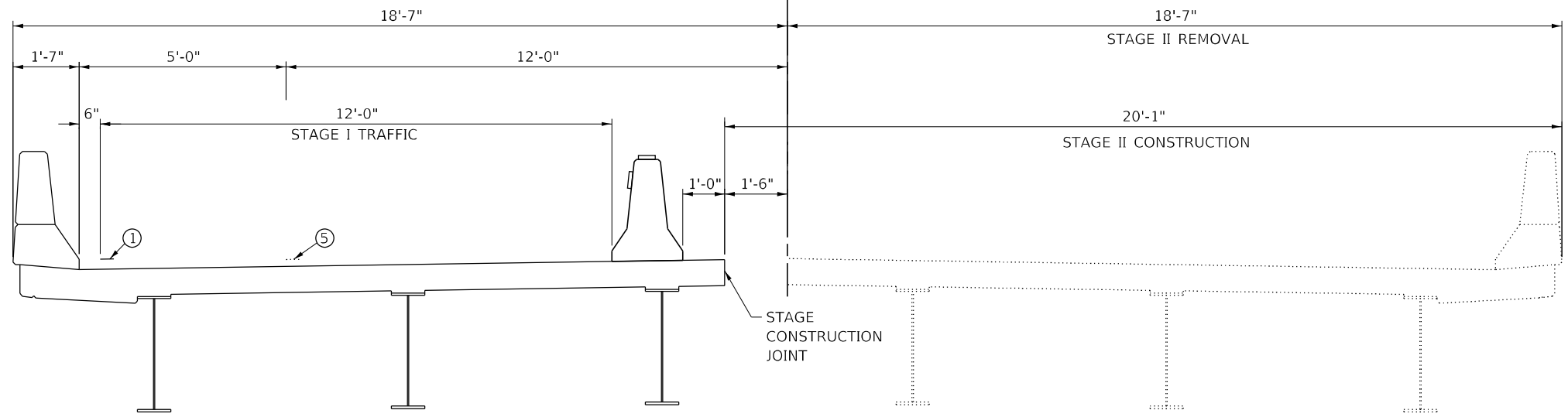
SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	8
CONTRACT NO. 66M02			ILLINOIS FED. AID PROJECT	



STOP
HERE
ON
RED
R10-6A-2430

- ① TEMPORARY PAVEMENT MARKING - LINE 4" (WHITE)
- ② TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ③ GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARDS 704001 AND 782006.
- ④ THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24" AND 6' FROM EDGE OF SHOULDER.
- ⑤ PAVEMENT MARKING REMOVAL



- ① PAVEMENT MARKING REMOVAL
- ② TEMPORARY PAVEMENT MARKING - LINE 4" (EDGE LINE, WHITE)

STAGING DETAIL
STAGE I
LOOKING EAST

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TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

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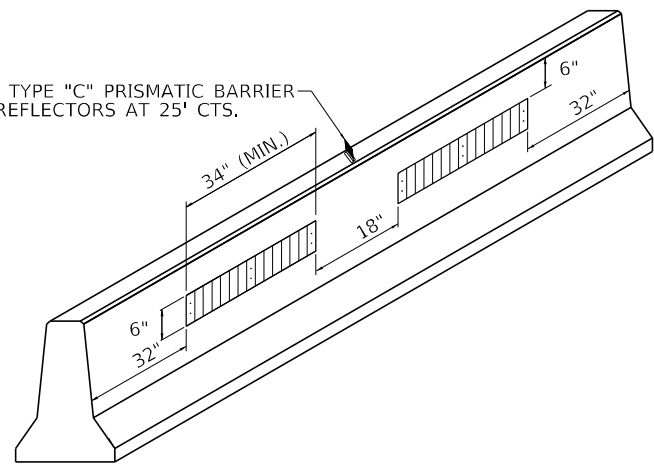
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LEGEND

- WORK ZONE
- BARRICADES, TYPE III WITH STEADY BURNING LIGHT
- SIGN
- IMPACT ATTENUATOR, TEMPORARY, (NON-REDIRECTIVE, NARROW) TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE AND MICROWAVE DETECTOR
- TEMPORARY BRIDGE TRAFFIC SIGNAL WITH BACKPLATE

AMBER TYPE "C" PRISMATIC BARRIER WALL REFLECTORS AT 25' CTS.



LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER

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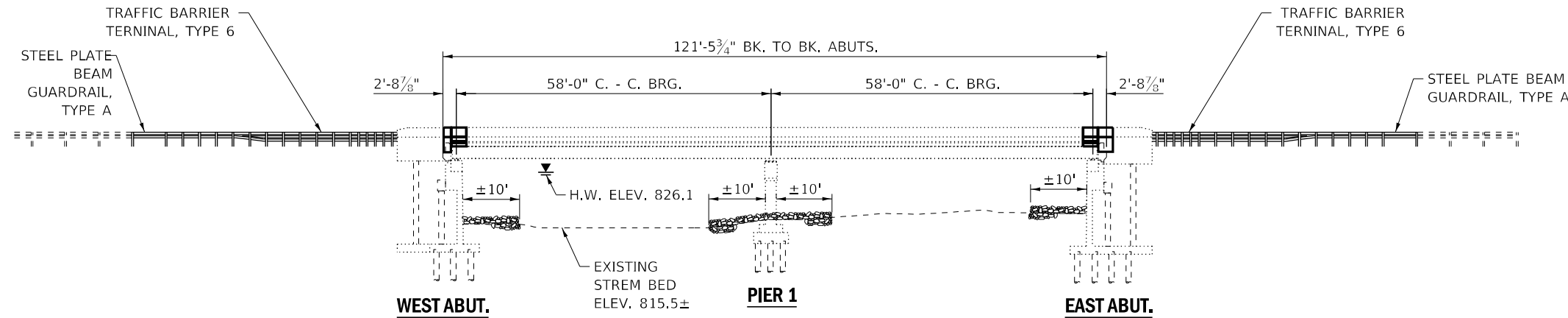
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PLOT SCALE = 100,0000' / in.	DATE - 8/6/2021	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

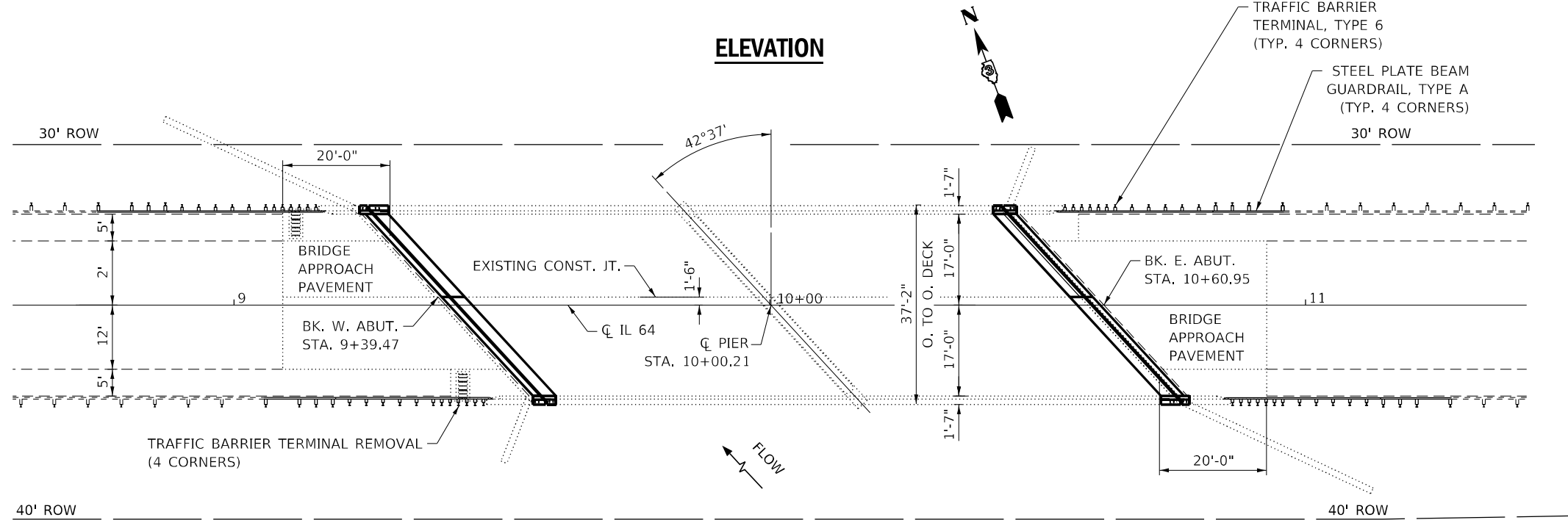
TRAFFIC CONTROL AND PROTECTION FOR
STAGE I CONSTRUCTION

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

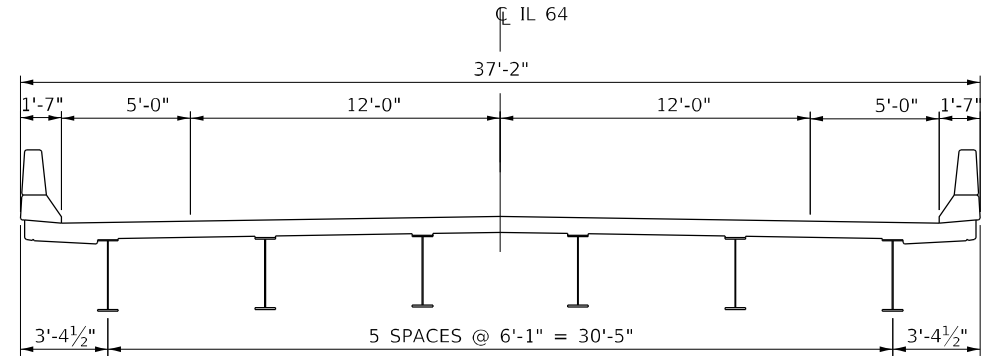
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	9
CONTRACT NO. 66M02			ILLINOIS FED. AID PROJECT	



ELEVATION



**PLAN DECK
STRUCTURE NO. 019-0012**



CROSS SECTION

LOOKING EAST

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

ALL STRUCTURAL STEEL FOR EXPANSION JOINTS SHALL BE AASHTO M 270 GRADE 36

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

AS DIRECTED BY THE ENGINEER, EXISTING CONSTRUCTION ACCESSORIES WELDED TO THE TOP FLANGE OF BEAMS AND GIRDERS SHALL BE REMOVED. THE WELD AREAS SHALL BE GROUND FLUSH AND INSPECTED FOR CRACKS USING MAGNETIC PARTICLE TESTING (MT) OR DYE PENETRANT TESTING (PT) BY QUALIFIED PERSONNEL APPROVED BY THE ENGINEER.

PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEGREES F.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU. YD.	12
CONCRETE SUPERSTRUCTURE	CU. YD.	12
REINFORCEMENT BARS, EPOXY COATED	POUND	1860
BAR SPLICERS	EACH	24
PROTECTIVE COAT	SQ. YD.	92
PREFORMED JOINT STRIP SEAL	FOOT	98
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	16
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	29
STONE DUMPED RIPRAP, CLASS A4	TON	770



Expires 11/30/2022

Jayme F. Schiff

USER NAME = woodstank1	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
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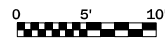
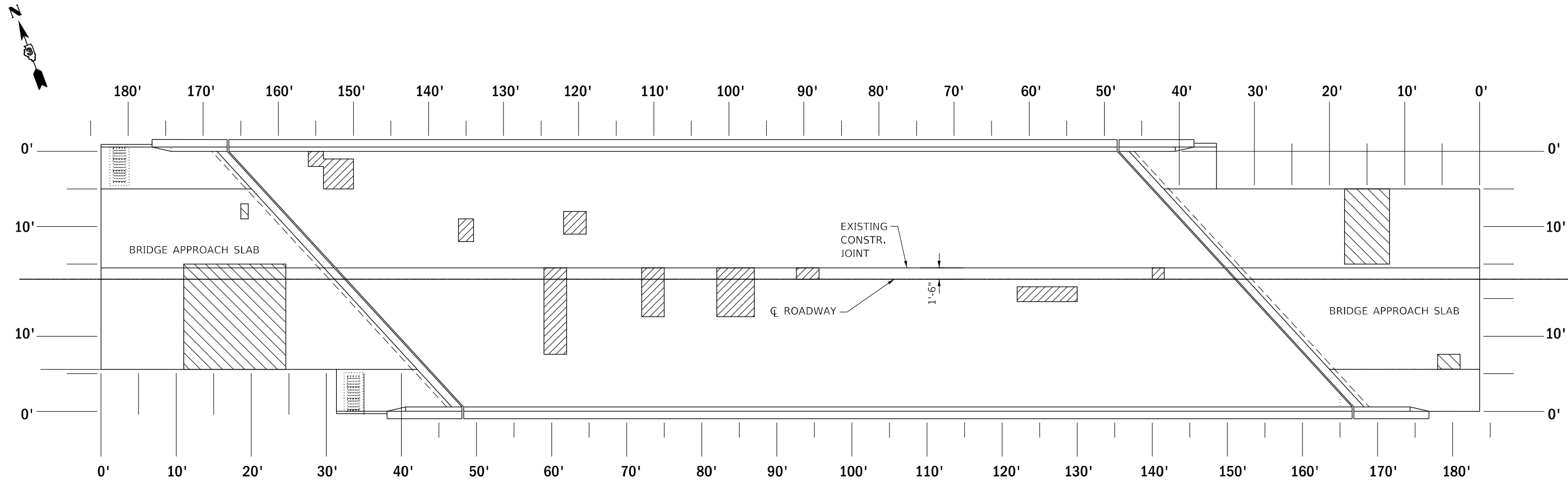
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
FOR STRUCTURE NO. 019-0012**

SCALE: SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	10
			CONTRACT NO. 66M02	
		ILLINOIS FED. AID PROJECT		

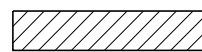
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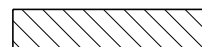
SCALE

**EXISTING PLAN
DECK/APPROACH SLAB REPAIR
FOR STRUCTURE NO. 019-0012**

LEGEND



DECK SLAB REPAIR (PARTIAL)



APPROACH SLAB REPAIR (PARTIAL DEPTH)

NOTE:
THE DECK SLAB REPAIR LOCATION AREAS SHOWN ARE APPROXIMATE AND THE QUANTITIES ARE ESTIMATED.
THE ENGINEER SHALL SOUND THE ENTIRE DECK SLAB AREA AT TIME OF CONSTRUCTION FOR ACTUAL REPAIR AREAS.

DECK/APPROACH SLAB REPAIRS

BILL OF MATERIAL

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	16
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	29
PROTECTIVE COAT	SQ. YD.	45

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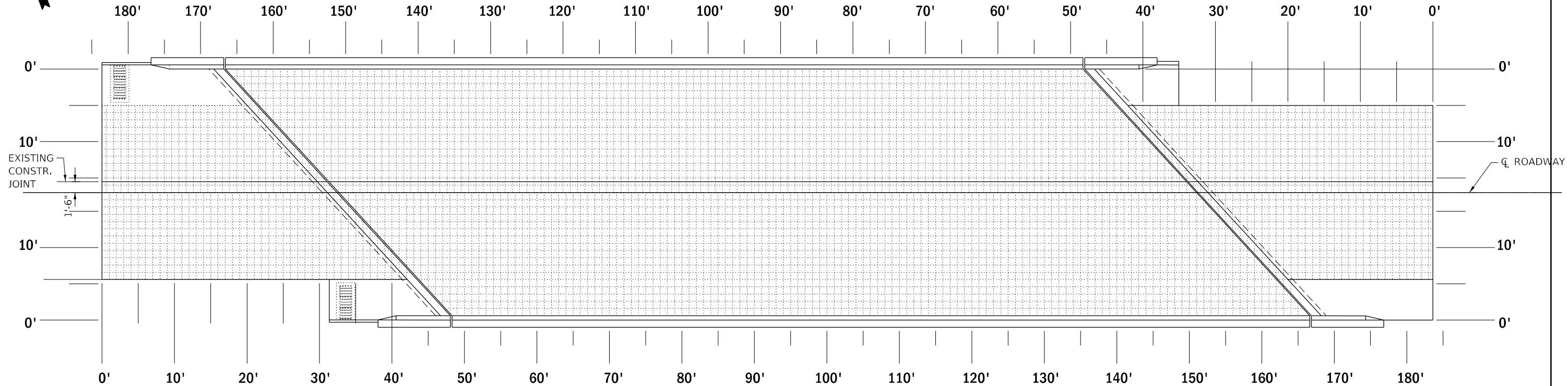
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PLOT DATE = 4/20/2022	DATE - 8/6/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DECK/APPROACH SLAB REPAIR DETAILS
FOR STRUCTURE NO. 019-0012**

SCALE: SHEET 2 OF 10 SHEETS STA. TO STA.

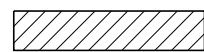
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	11
			CONTRACT NO. 66M02	
ILLINOIS FED. AID PROJECT				



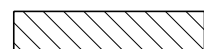
**"AS-BUILT" PLAN
DECK/APPROACH SLAB REPAIR
FOR STRUCTURE NO. 019-0012**

SCALE

LEGEND



DECK SLAB REPAIR (PARTIAL)



APPROACH SLAB REPAIR (PARTIAL DEPTH)

NOTE:
THE DECK SLAB REPAIR LOCATION AREAS SHOWN ARE APPROXIMATE
AND THE QUANTITIES ARE ESTIMATED.
THE ENGINEER SHALL SOUND THE ENTIRE DECK SLAB AREA
AT TIME OF CONSTRUCTION FOR ACTUAL REPAIR AREAS.

**"AS-BUILT"
DECK/APPROACH SLAB REPAIRS
BILL OF MATERIAL**

ITEM	UNIT	TOTAL
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	

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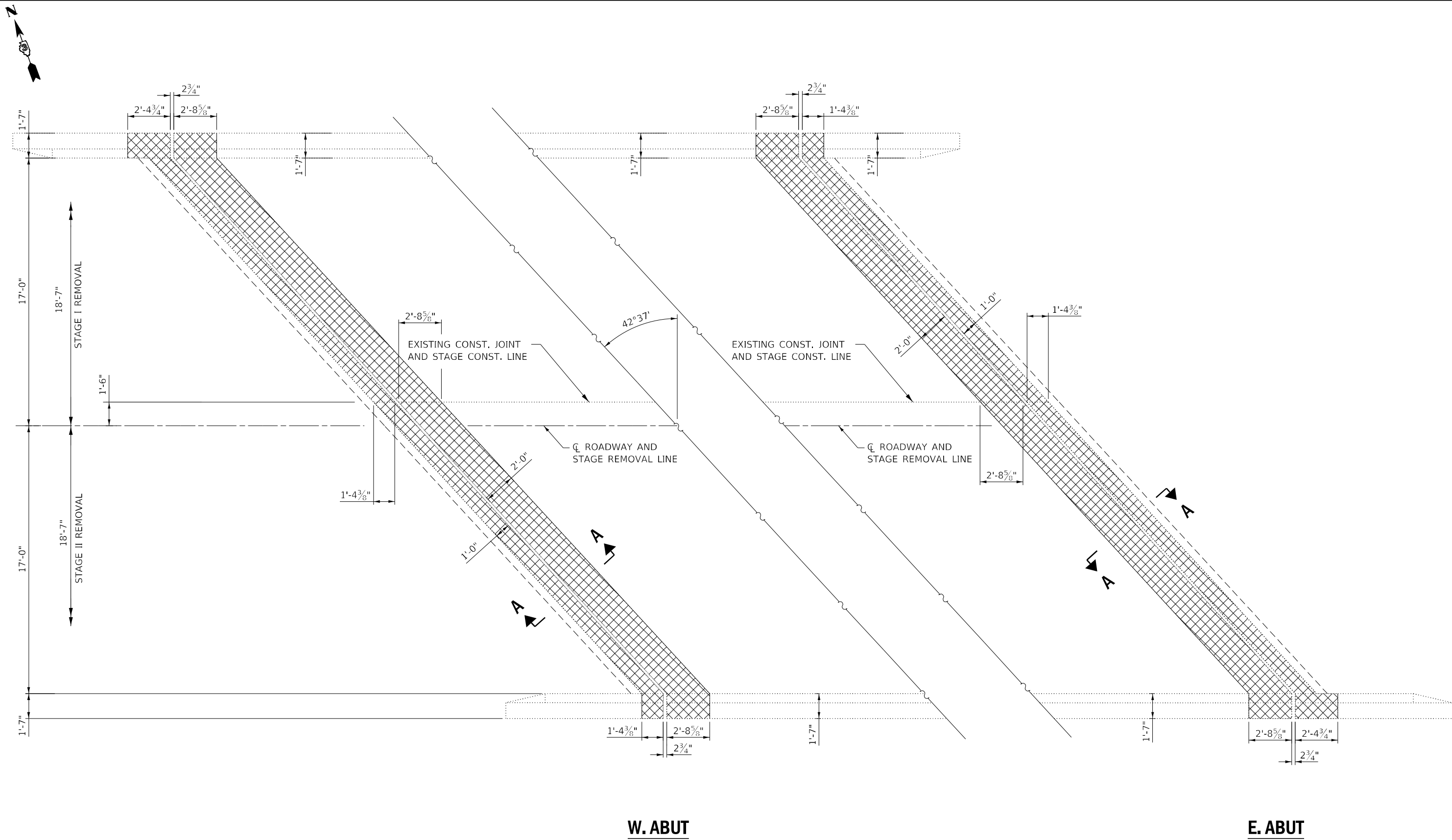
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**"AS-BUILT" DECK/APPROACH SLAB REPAIR DETAILS
FOR STRUCTURE NO. 019-0012**

SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	12
			CONTRACT NO. 66M02	
		ILLINOIS	FED. AID PROJECT	



W. ABUT

E. ABUT

EXISTING PLAN

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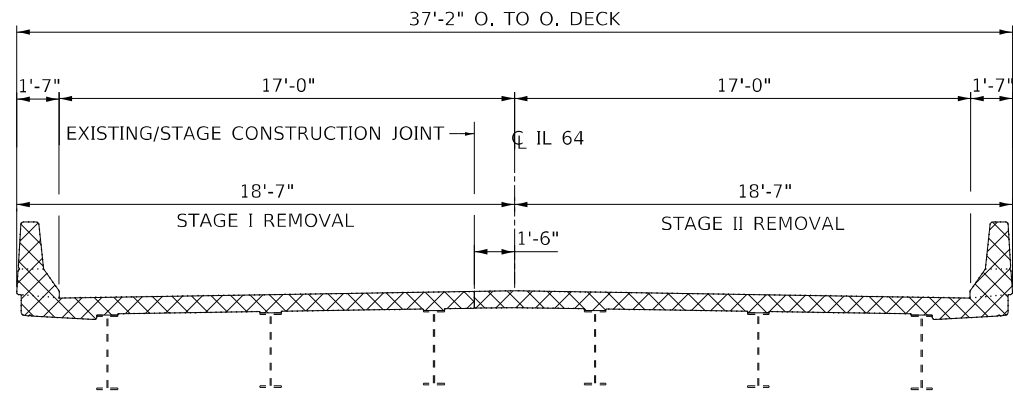
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

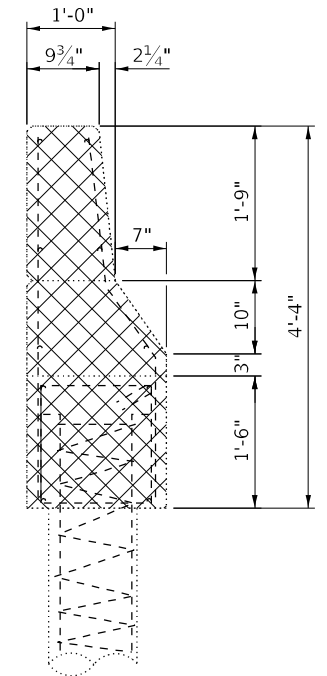
**REMOVAL DETAILS
FOR STRUCTURE NO. 019-0012**

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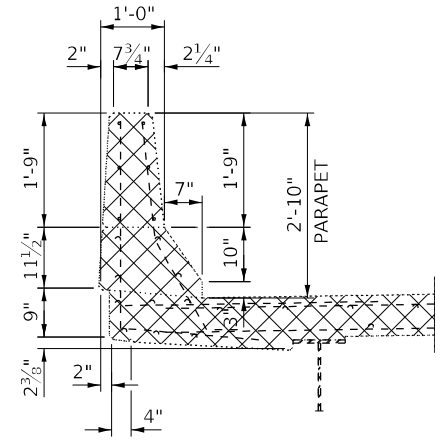
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		CONTRACT NO. 66M02		
ILLINOIS FED. AID PROJECT				



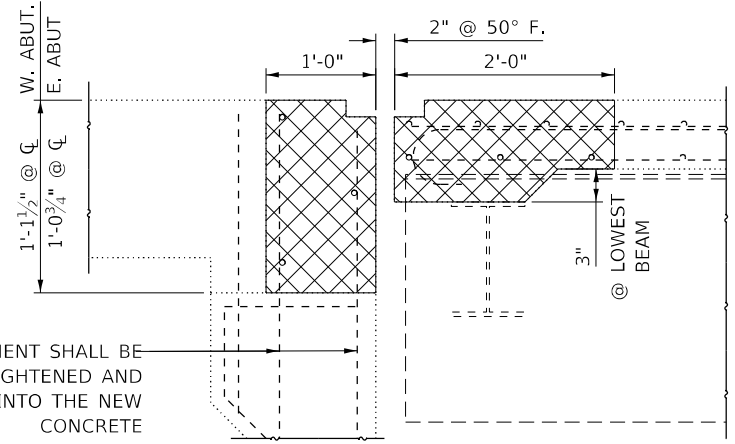
CROSS SECTION
LOOKING EAST



SECTION THRU WING WALL

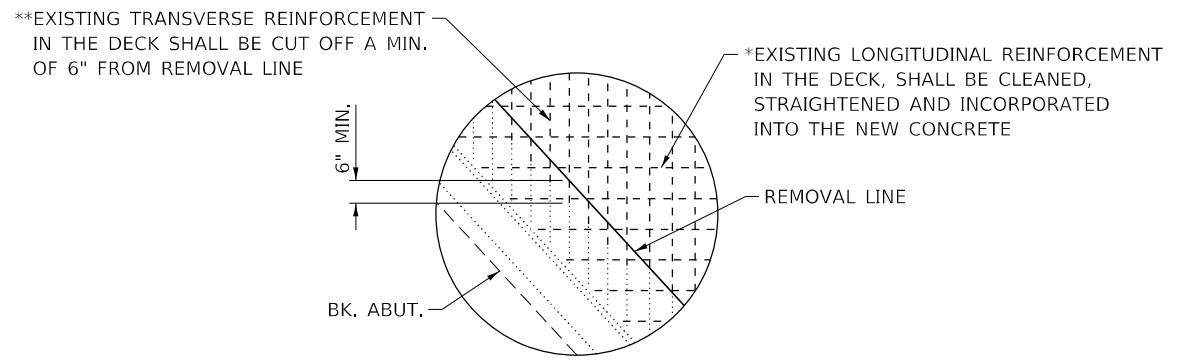


CURB SECTION
AT EXPANSION JOINT

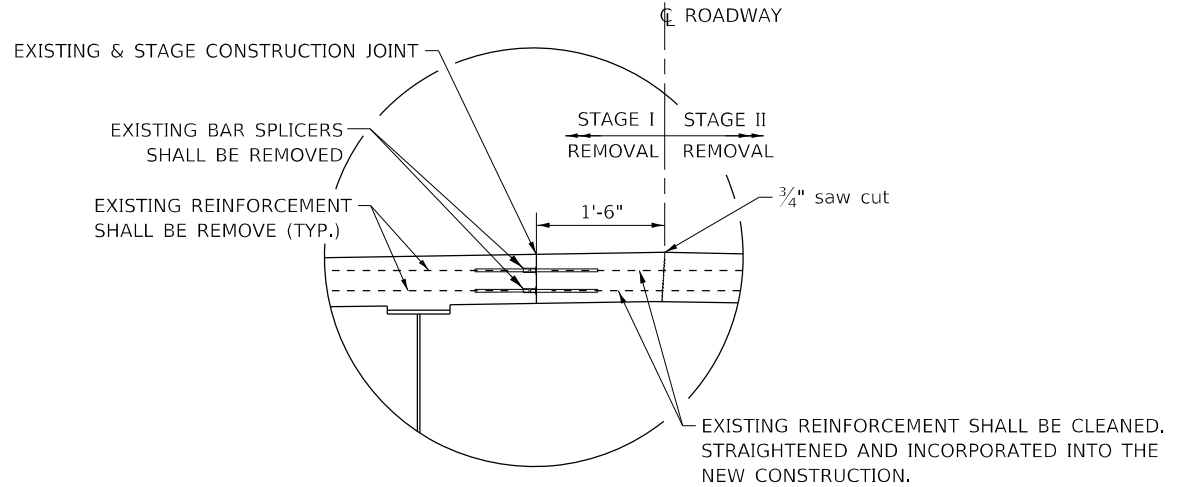


SECTION A-A
DIMENSIONS AT RT. Δ's

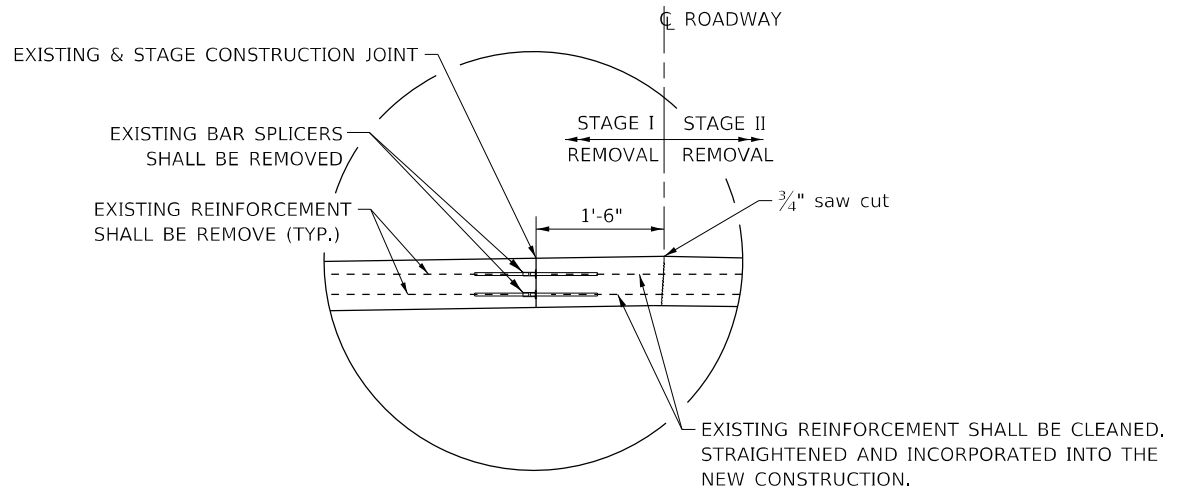
EXISTING REINFORCEMENT SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONCRETE



DECK REINFORCEMENT CUTTING DETAIL



EXISTING CONSTRUCTION JOINT
AT DECK



EXISTING CONSTRUCTION JOINT
AT ABUTMENT

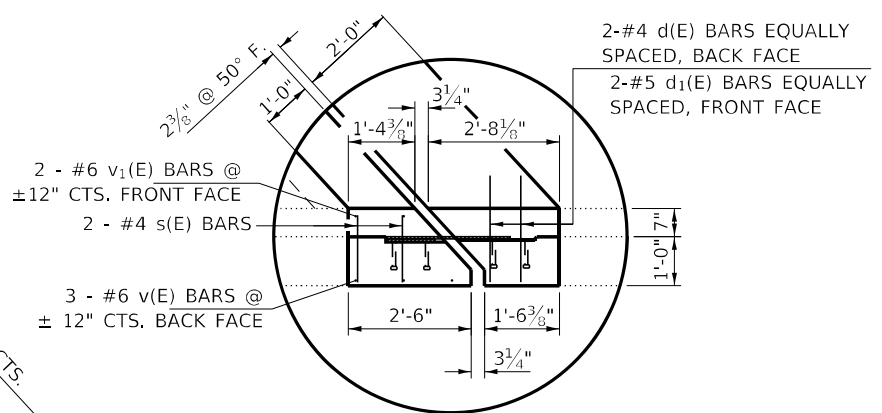
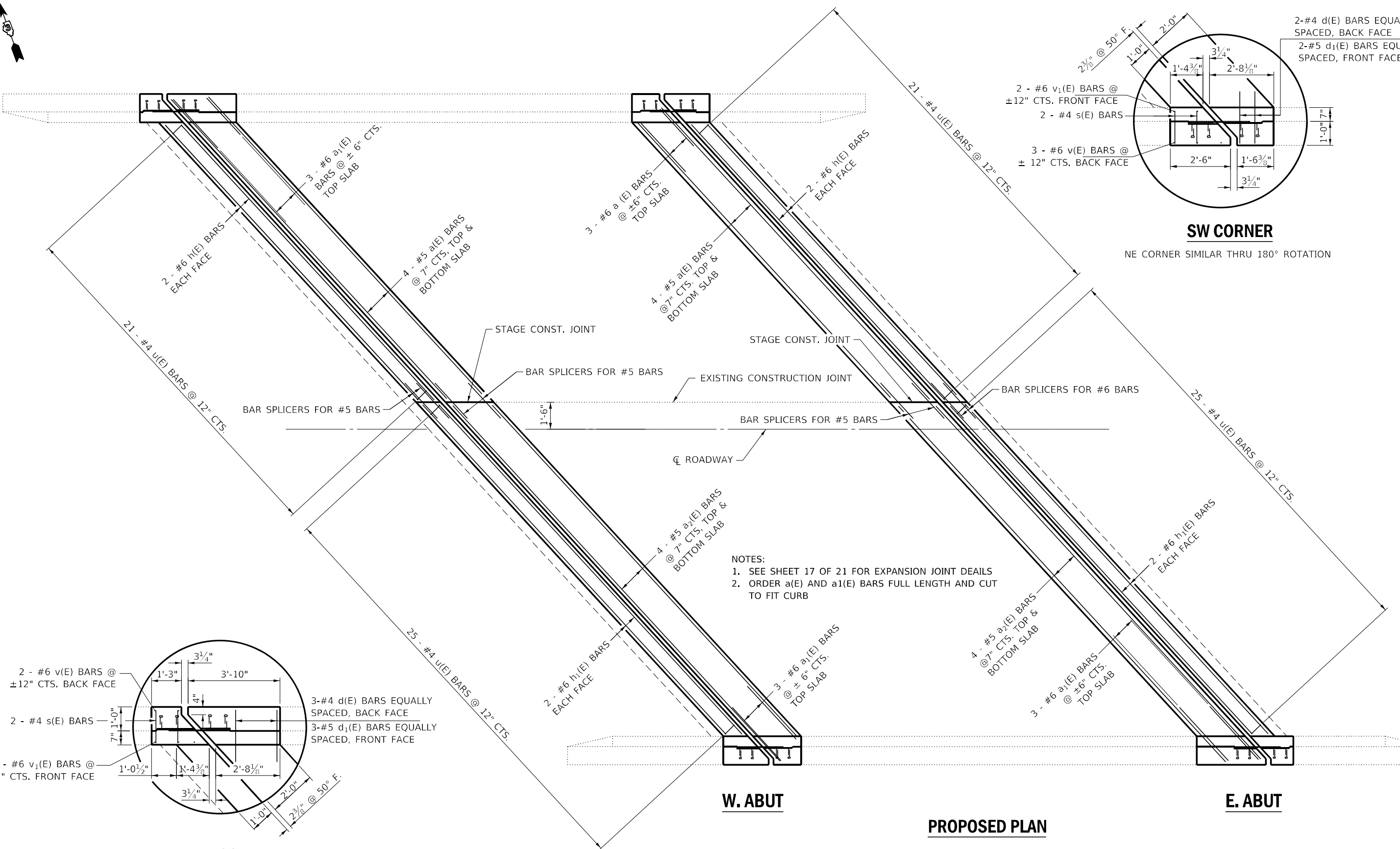
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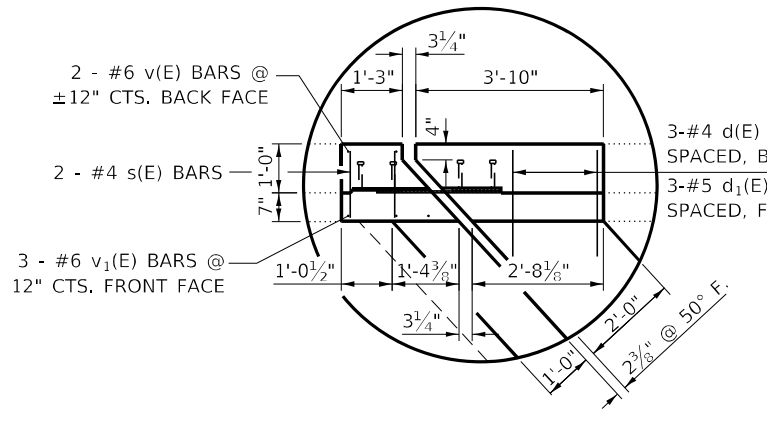
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS FOR STRUCTURE NO. 019-0012		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		17	(125BR)BRR	DEKALB	21	14
SCALE:	SHEET 5 OF 10 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	14
CONTRACT NO. 66M02				



SW CORNER
NE CORNER SIMILAR THRU 180° ROTATION



NW CORNER
SE CORNER SIMILAR THRU 180° ROTATION

- NOTES:**
1. SEE SHEET 17 OF 21 FOR EXPANSION JOINT DEALS
 2. ORDER a(E) AND a1(E) BARS FULL LENGTH AND CUT TO FIT CURB

W. ABUT

E. ABUT

PROPOSED PLAN

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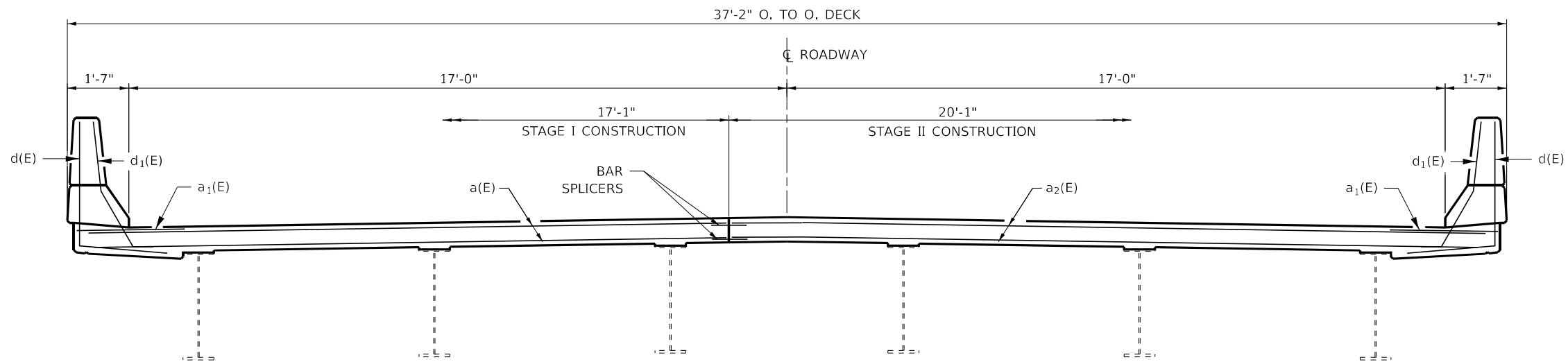
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PLOT DATE = 4/20/2022	DATE - 8/6/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS - DECK
FOR STRUCTURE NO. 019-0012**

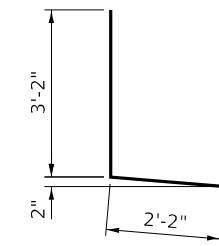
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F.A.P. RTE. 17	SECTION (125BR)BRR	COUNTY DEKALB	TOTAL SHEETS 21	SHEET NO. 15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66M02	

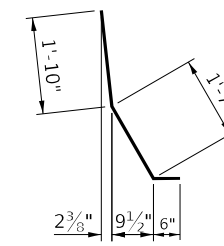


CROSS SECTION

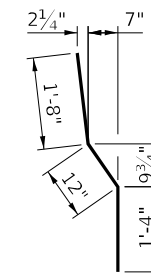
LOOKING EAST
AT EXPANSION JOINT



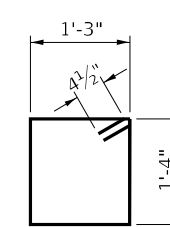
d(E) BAR



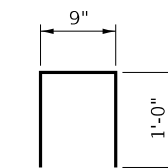
d1(E) BAR



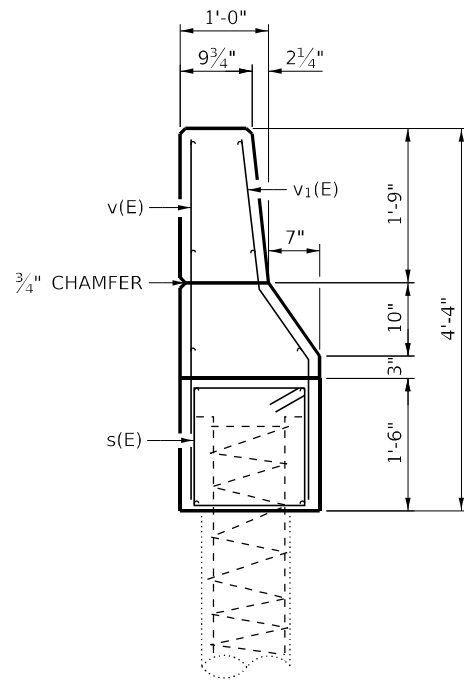
v1(E) BAR



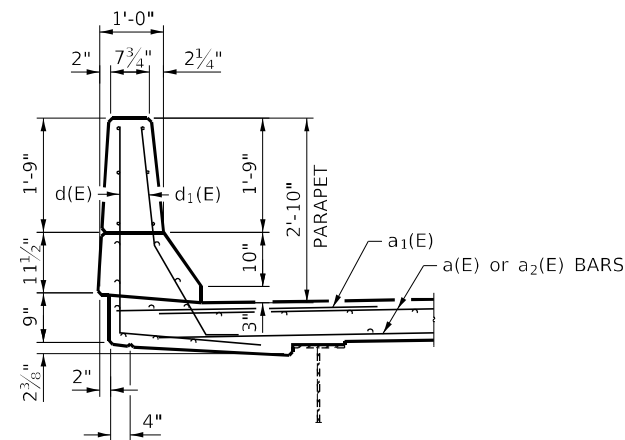
s(E) BAR



u(E) BAR

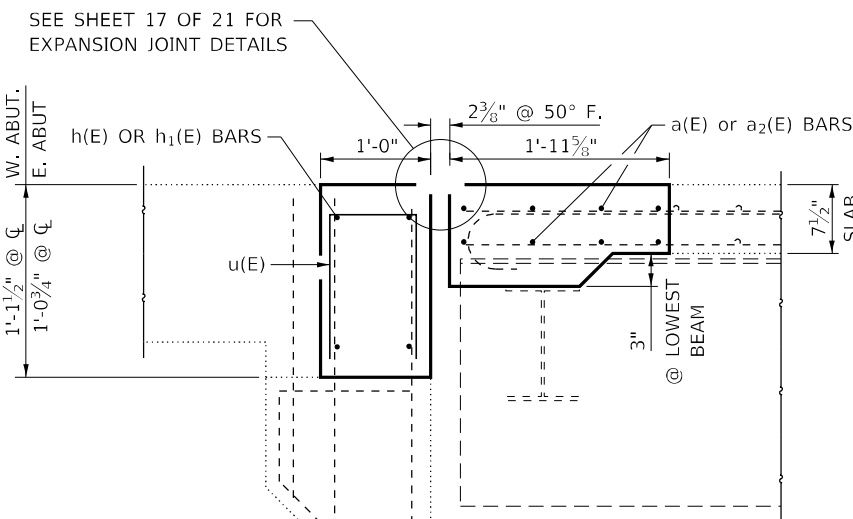


SECTION THRU WING WALL



CURB SECTION

AT EXPANSION JOINT



SECTION C-C

DIMENSIONS AT RT. Δ's

BILL OF MATERIAL FOR TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	16	#5	22'-10"	—
a1(E)	12	#6	4'-0"	—
a2(E)	16	#5	26'-11"	—
d(E)	10	#4	5'-4"	┌
d1(E)	10	#5	3'-11"	└
h(E)	8	#6	20'-9"	—
h1(E)	8	#6	24'-10"	—
s(E)	8	#4	5'-11"	□
u(E)	92	#4	2'-9"	└
v(E)	10	#6	3'-10"	—
v1(E)	10	#6	4'-0"	└
CONCRETE REMOVAL			CU. YD.	12
CONCRETE SUPERSTRUCTURE			POUND	12
REINFORCEMENT BARS, EPOXY COATED			POUND	1860
PROTECTIVE COAT			SQ. YD.	47

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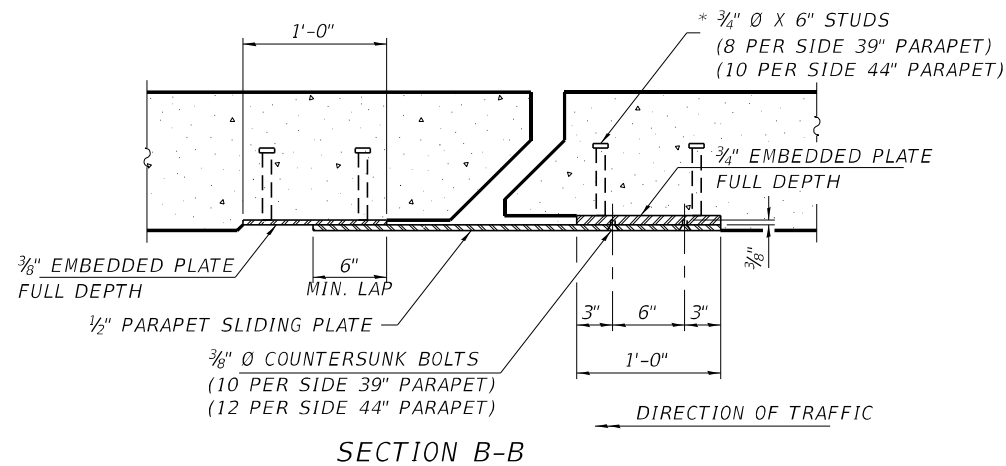
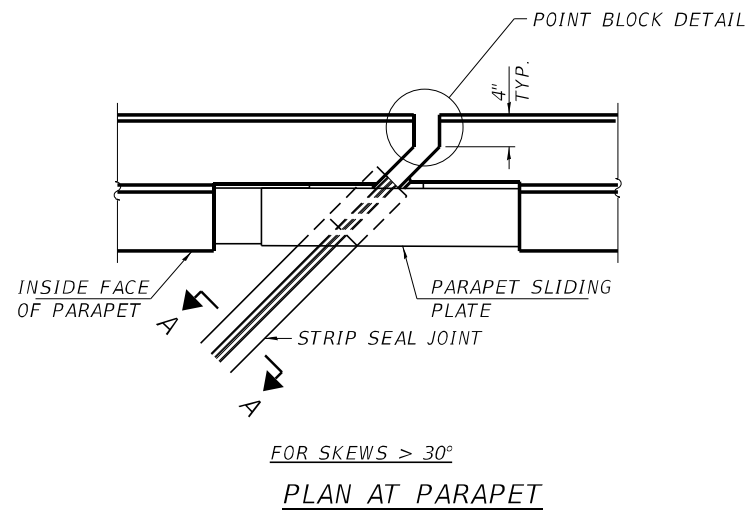
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

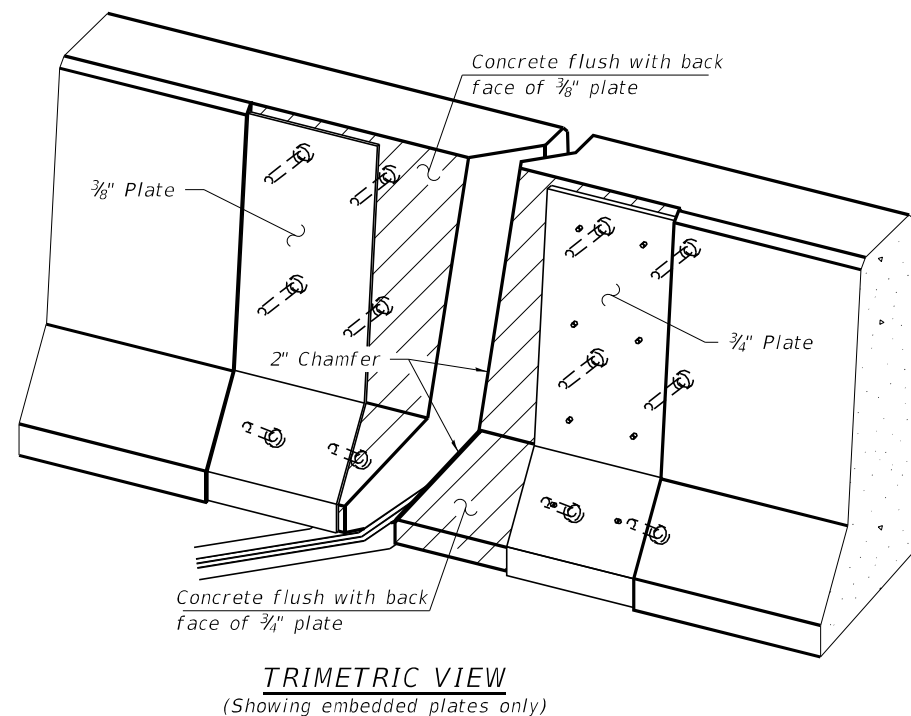
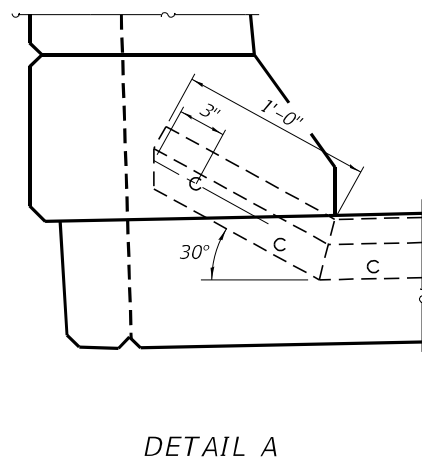
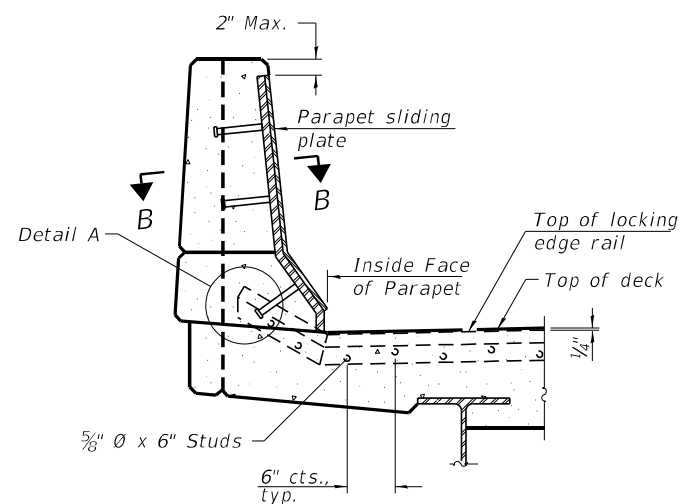
CONSTRUCTION DETAILS - ABUTMENTS
FOR STRUCTURE NO. 019-0012

SCALE: SHEET 7 OF 10 SHEETS STA. TO STA.

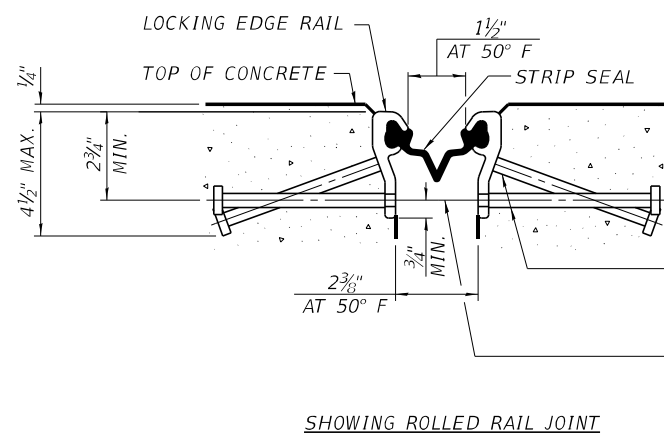
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	16
				CONTRACT NO. 66M02
ILLINOIS FED. AID PROJECT				



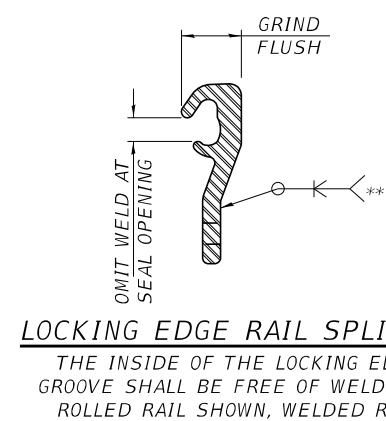
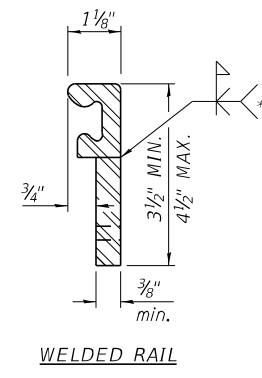
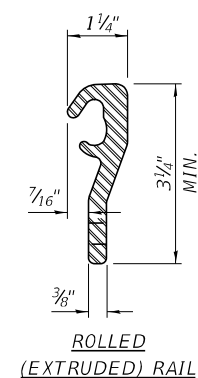
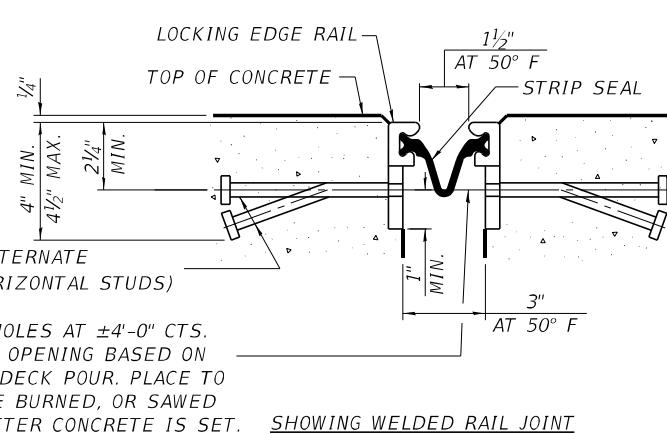
NOTES:
THE STRIP SEAL SHALL BE MADE CONTINUOUS AND SHALL HAVE A MINIMUM THICKNESS OF 1/4". THE CONFIGURATION OF THE STRIP SEAL SHALL MATCH THE CONFIGURATION OF THE LOCKING EDGE RAILS. OPEN OR "WEBBED" STRIP SEAL GLAND CONFIGURATIONS ARE NOT PERMITTED. THE GLAND SHALL BE SIZED FOR A MAXIMUM RATED MOVEMENT OF 4 INCHES.
THE LOCKING EDGE RAILS DEPICTED ARE CONFIGURED FOR TYPICAL APPLICATIONS AND ARE CONCEPTUAL ONLY. THE ACTUAL CONFIGURATION OF THE LOCKING EDGE RAILS AND MATCHING STRIP SEAL MAY VARY FROM MANUFACTURER TO MANUFACTURER PROVIDED THEY FIT THE APPLICATION AND MEET THE MINIMUM ANCHORAGE SHOWN. FLANGED EDGE RAILS, HOWEVER, WILL NOT BE ALLOWED. LOCKING EDGE RAILS MAY EXCEED THE 4 1/2" MAXIMUM DEPTH PROVIDED THE ANCHORAGE SYSTEM IS REVISED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.
THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL BE FOLLOWED.



ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS.
THE MAXIMUM SPACE BETWEEN LOCKING EDGE RAIL SEGMENTS SHALL BE 1/16" AND SEALED WITH A SUITABLE SEALANT; HOWEVER, ANY RAIL JOINT WITHIN 10' MEASURED PERPENDICULAR TO THE FACE OF THE CURB OR PARAPET SHALL BE WELDED AS SHOWN IN THE LOCKING EDGE RAIL SPLICE DETAIL.
COST OF PARAPET SLIDING PLATES, EMBEDDED PLATES, AND ANCHORAGE STUDS INCLUDED WITH PREFORMED JOINT STRIP SEAL.
39" CONSTANT SLOPE BARRIER SHOWN, 44" CONSTANT SLOPE BARRIER SIMILAR AS NOTED.
THE CONCRETE OPENING BELOW THE STRIP SEAL WILL VARY BASED ON THE LOCKING EDGE RAIL CHOSEN BY THE CONTRACTOR. DECK AND PARAPET LENGTHS SHOWN ELSEWHERE IN THE PLANS ARE DIMENSIONED TO THE CONCRETE OPENING, NOT THE JOINT OPENING, AND ARE BASED ON THE ROLLED LOCKING EDGE RAIL. IF THE CONTRACTOR ELECTS TO USE A DIFFERENT LOCKING EDGE RAIL, DIMENSIONAL ADJUSTMENTS MAY BE REQUIRED. ONE EXCEPTION TO THIS WOULD BE THE STRIP SEAL JOINT AT THE END OF THE PRECAST BRIDGE APPROACH SLAB. FOR THESE CASES THE PAVEMENT CONNECTOR LENGTH SHALL BE ADJUSTED, NOT THE LENGTH OF THE BRIDGE APPROACH SLAB.



* 5/8" Ø X 6" STUDS @ 6" CTS. (ALTERNATE ANGLED/BENT STUDS WITH HORIZONTAL STUDS)
3/8" Ø THREADED RODS IN 7/16" Ø HOLES AT ±4'-0" CTS. FOR HOLDING THE PROPER JOINT OPENING BASED ON THE TEMPERATURE DURING THE DECK POUR. PLACE TO MISS STUDS. ALL RODS SHALL BE BURNED, OR SAWED OFF FLUSH WITH THE PLATES AFTER CONCRETE IS SET.



LOCKING EDGE RAILS
** BACK GOUGE NOT REQUIRED IF COMPLETE JOINT PENETRATION IS VERIFIED BY MOCK-UP.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
W. ABUT. PREFORMED JOINT STRIP SEAL	FOOT	49
E. ABUT. PREFORMED JOINT STRIP SEAL	FOOT	49

SECTION A-A

* GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ARTICLE 1006.32 OF THE STD. SPECS., AUTOMATICALLY END WELDED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRIP SEAL EXPANSION JOINT
FOR STRUCTURE NO. 019-0012

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	17
				CONTRACT NO. 66M02
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 8 OF 10 SHEETS STA. TO STA.

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EJ-SS

1-1-2020

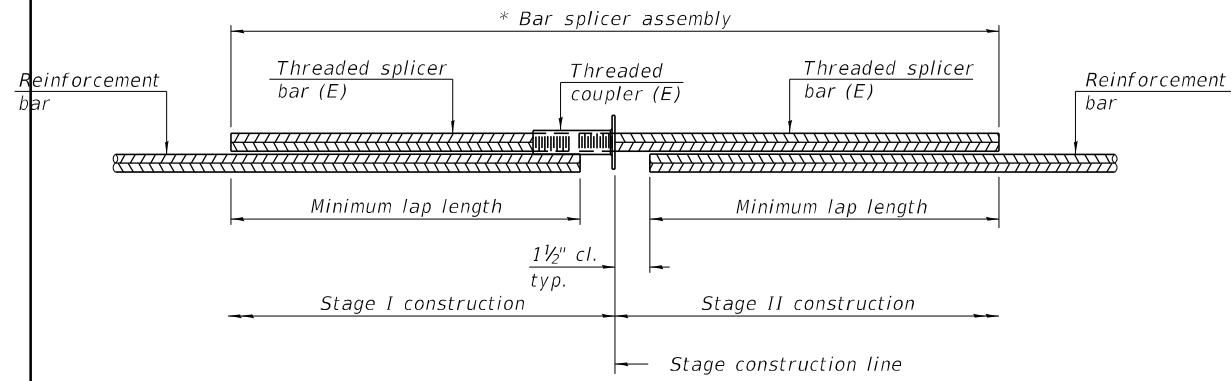
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PLOT DATE = 4/20/2022

CHECKED - YP
DATE - 8/6/2021

REVISION -
REVISION -
REVISION -
REVISION -

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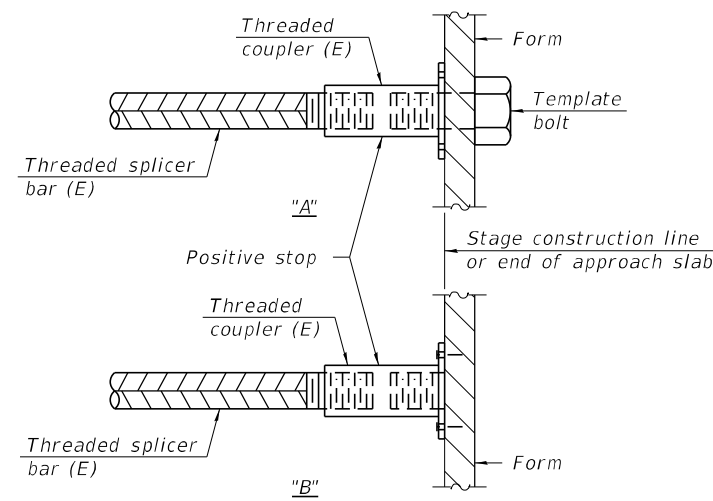


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W ABUT (DECK)	#5	8	3'-0"
W ABUT (BLOCK OUT)	#6	4	3'-7"
E ABUT (DECK)	#5	8	3'-0"
E ABUT (BLOCK OUT)	#6	4	3'-7"

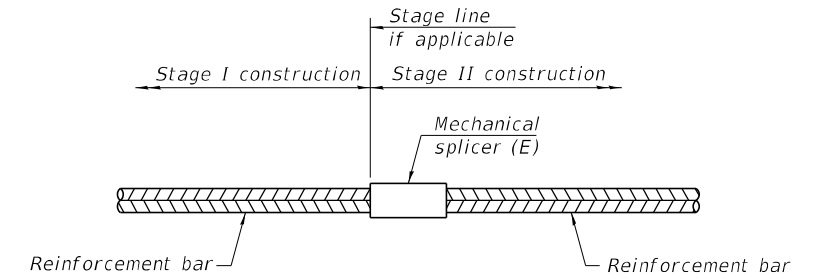


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

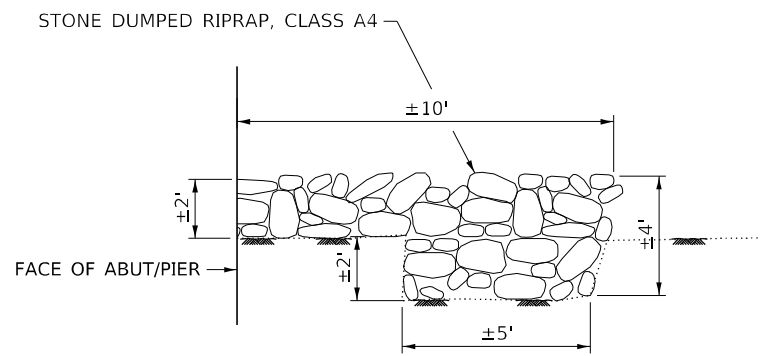
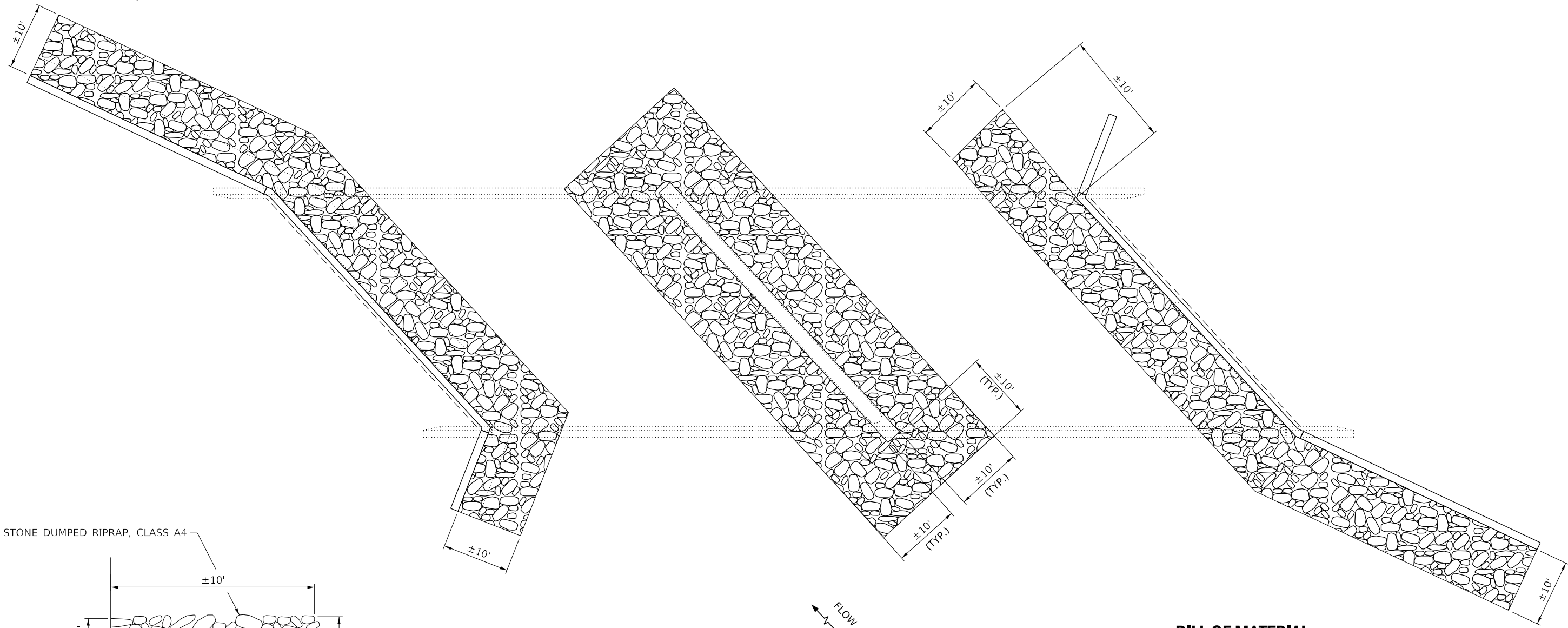
Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.



RIPRAP DETAIL

BILL OF MATERIAL

ITEM	UNIT	TOTAL
STONE DUMPED RIPRAP, CLASS A4	TON	770

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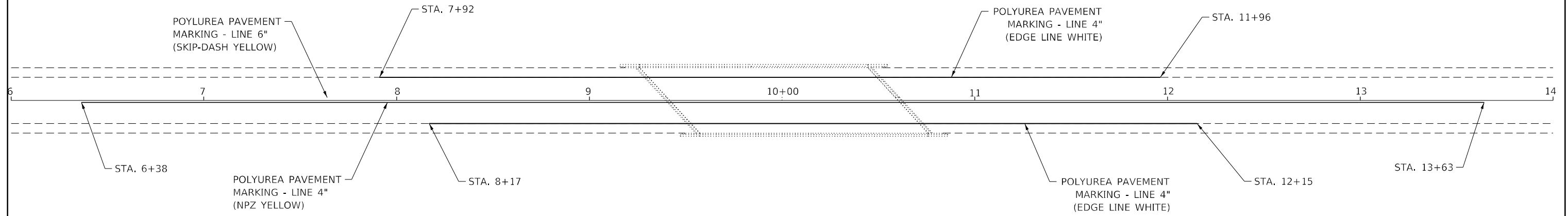
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PLOT DATE = 4/20/2022	DATE - 8/6/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RIPRAP DETAILS
FOR STRUCTURE NO. 019-0012**

SCALE: SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	19
			CONTRACT NO. 66M02	
ILLINOIS FED. AID PROJECT				



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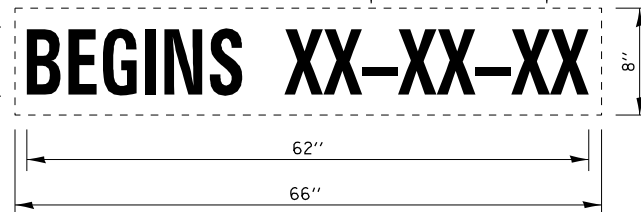
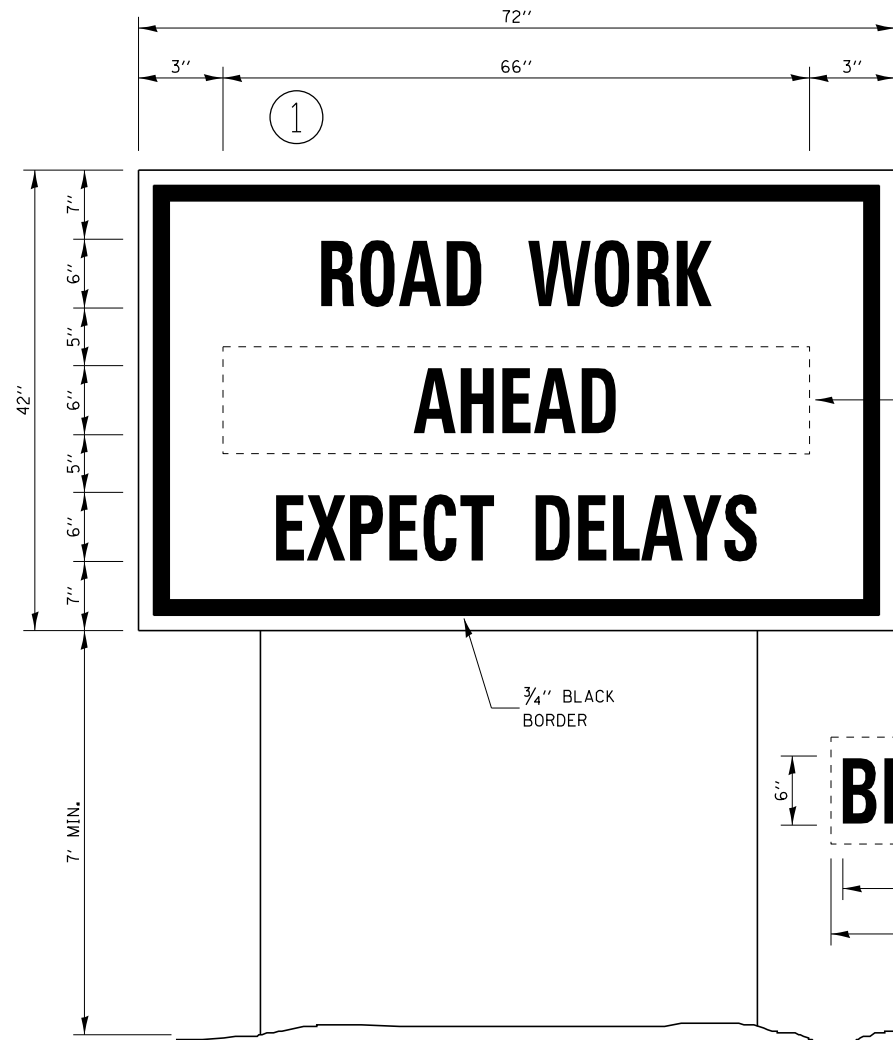
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PLOT DATE = 4/20/2022	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

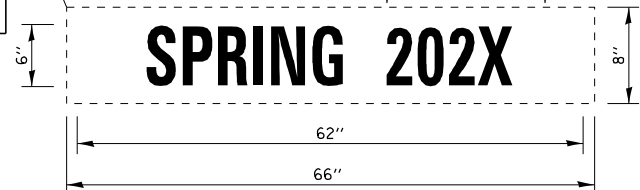
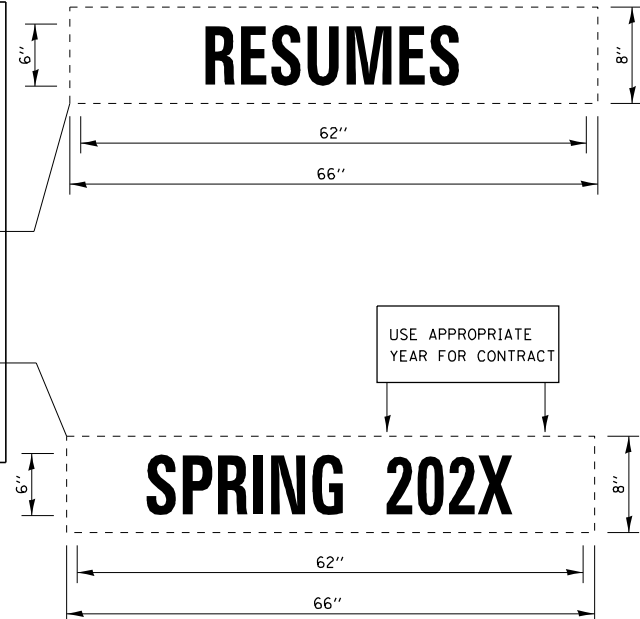
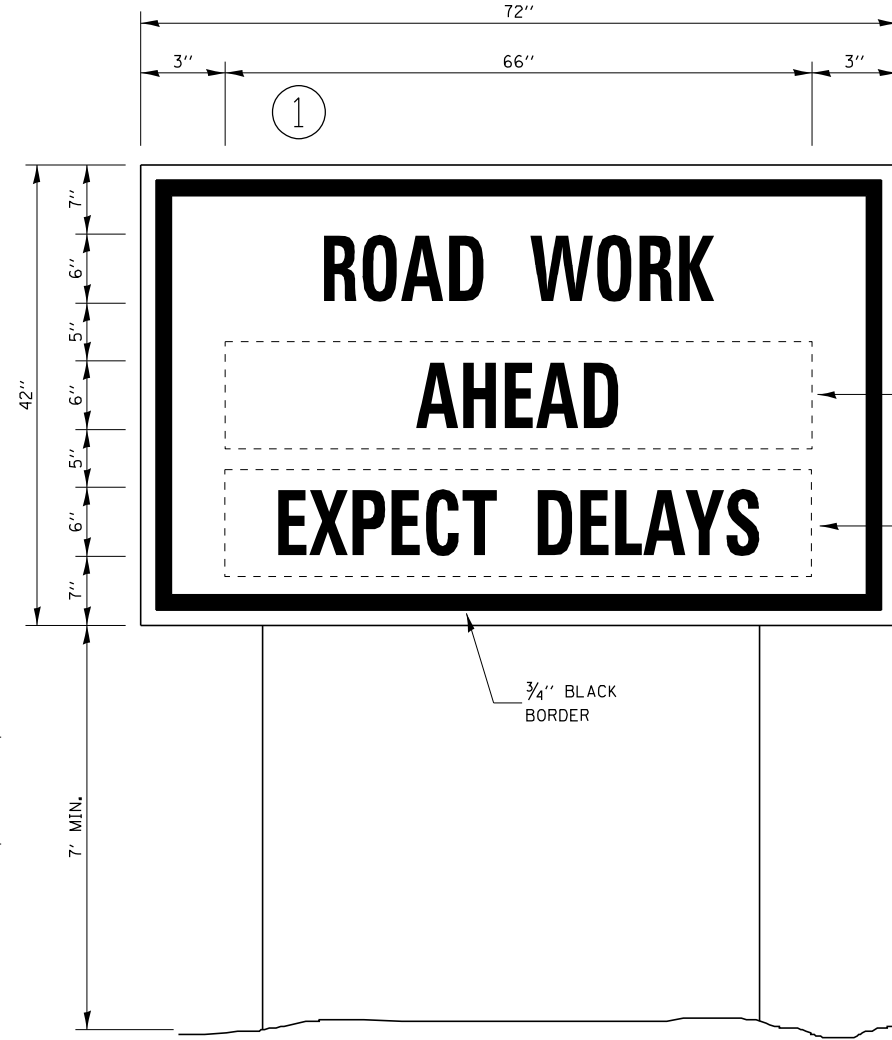
PAVEMENT STRIPING

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	20
			CONTRACT NO. 66M02	
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING



WINTER SHUT DOWN SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

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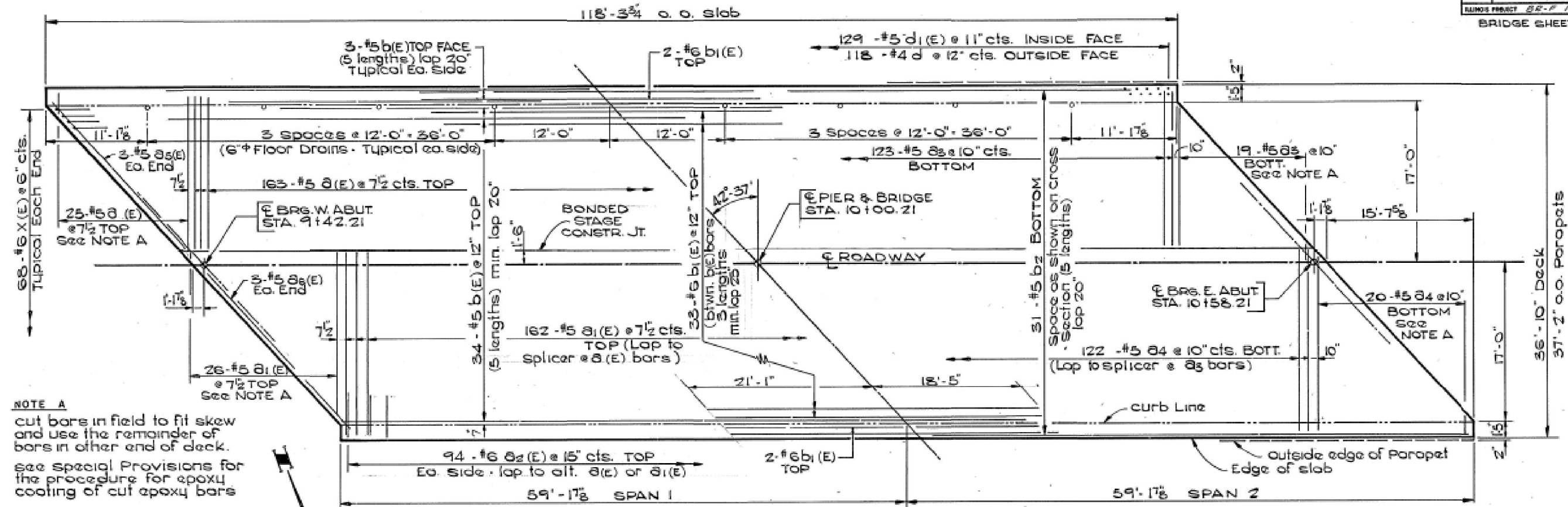
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PLOT DATE = 4/20/2022	DATE - 8/6/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY INFORMATION SIGNING

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

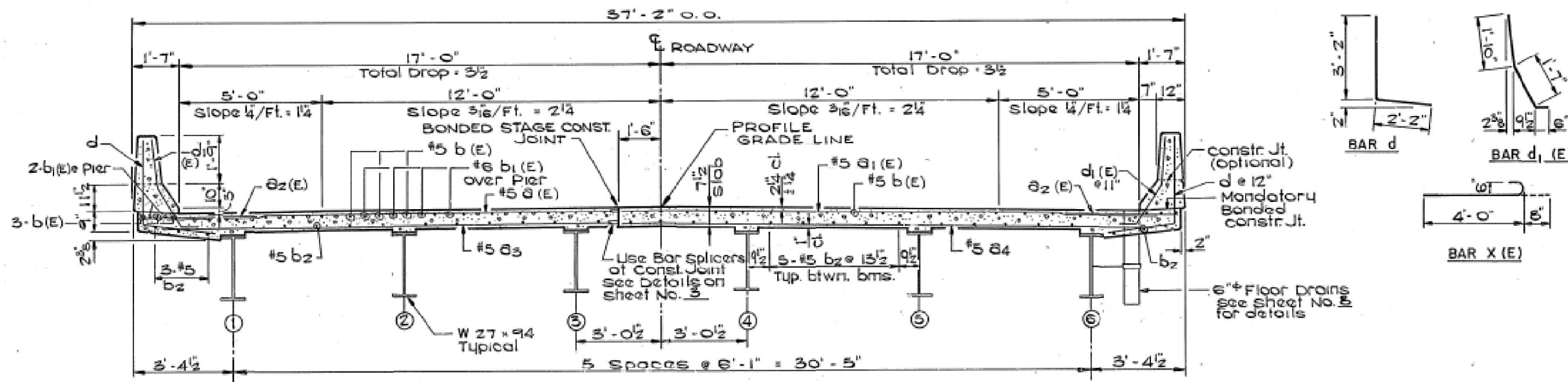
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	21	21
			CONTRACT NO. 66M02	
ILLINOIS FED. AID PROJECT				



NOTE A
cut bars in field to fit skew and use the remainder of bars in other end of deck.
see special Provisions for the procedure for epoxy coating of cut epoxy bars

PLAN DECK

NOTES
reinforcement bars designated (E) shall be epoxy coated see Special Provisions.
see sheet No. 3 for Bar Splicer details at stage construction joint.



OVER PIER **IN SPAN**

CROSS SECTION
(LOOKING EAST)

DECK SLAB DETAILS	
SECTION 125-BR	
F.A. RTE. 17 ILL. RTE. 64	
DE KALB COUNTY	
	REVISIONS

FOR INFORMATION ONLY

USER NAME = woodshank1	DESIGNED - RW	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 11/4/2021	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
FOR STRUCTURE NO. 019-0012

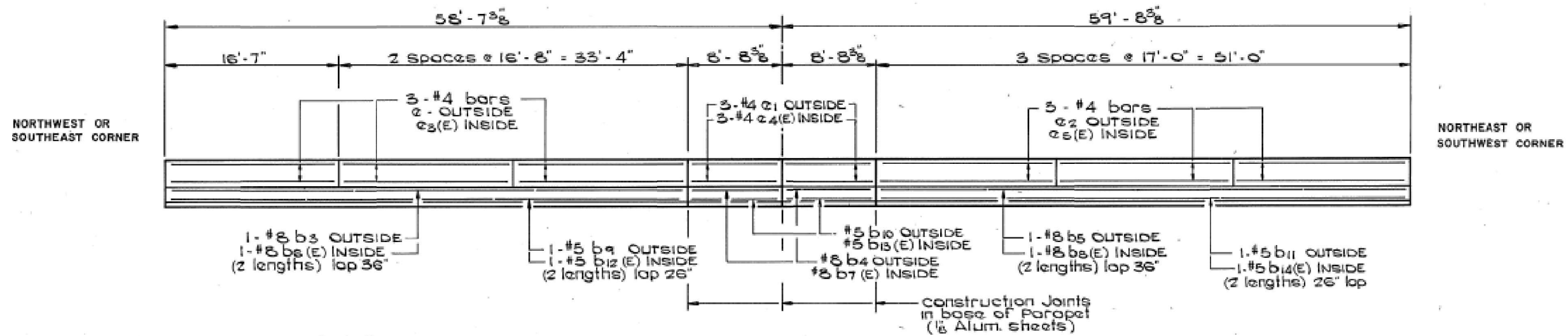
SCALE:	SHEET 2 OF 8 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	28	22
CONTRACT NO. 66M02				
ILLINOIS FED. AID PROJECT				

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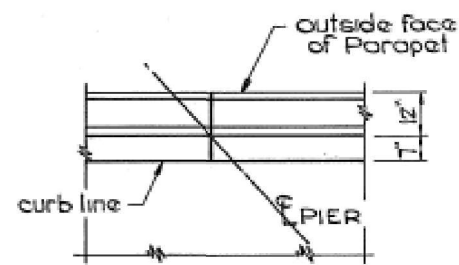
F.A. SECTION	125-BR	TOTAL SHEETS	23	SHEET NO.	12
ROUTE NO.	17	COUNTY	DE KALB		
BLINDS PROJECT	BR-P 17C				

BRIDGE SHEET 7 OF 13



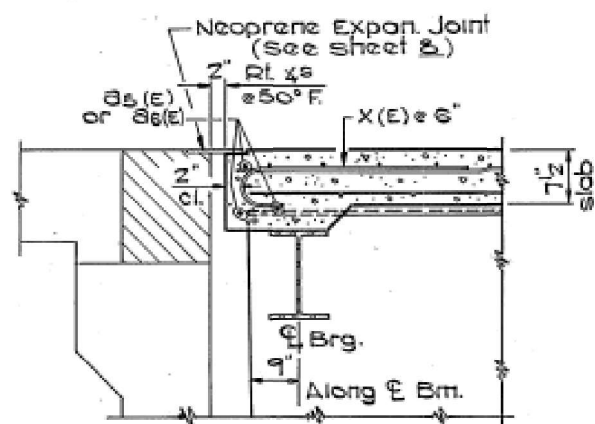
NORTHWEST OR SOUTHEAST CORNER

NORTHEAST OR SOUTHWEST CORNER

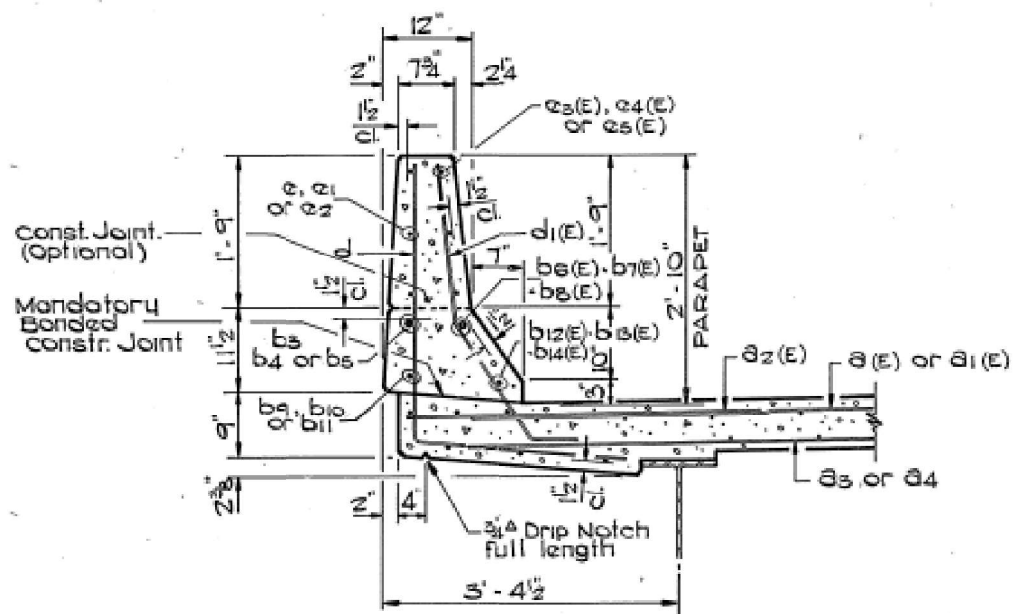


PLAN-PARAPET JOINT

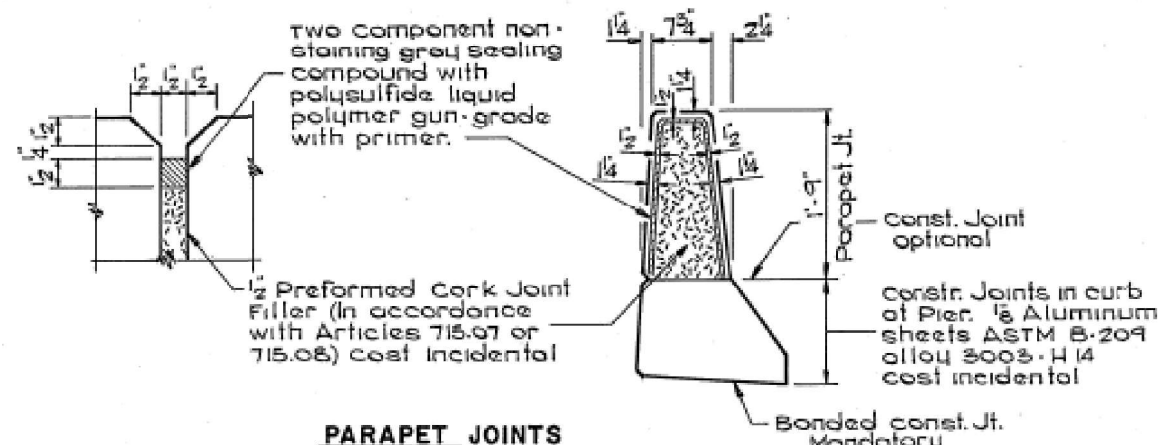
INSIDE ELEVATION - NORTH PARAPET
SOUTH PARAPET SIMILAR EXCEPT OPPOSITE HAND



SECTION AT END OF SLAB



CURB SECTION



PARAPET JOINTS

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
@1(E)	188	#5	16'-3"	—
@1(E)	188	#5	19'-0"	—
@2(E)	188	#6	4'-0"	—
@3	142	#5	16'-3"	—
@4	142	#5	19'-0"	—
@5(E)	6	#5	21'-0"	—
@6(E)	6	#5	25'-0"	—
b(E)	200	#5	25'-0"	—
b1(E)	111	#6	14'-7"	—
b2	155	#5	25'-0"	—
b3	4	#8	26'-5"	—
b4	4	#8	8'-4"	—
b5	4	#8	27'-0"	—
b6(E)	4	#8	26'-5"	—
b7(E)	4	#8	8'-4"	—
b8(E)	4	#8	27'-0"	—
b9	4	#5	26'-0"	—
b10	4	#5	8'-4"	—
b11	4	#5	26'-6"	—
b12(E)	4	#5	26'-0"	—
b13(E)	4	#5	8'-4"	—
b14(E)	4	#5	26'-6"	—
d	236	#4	5'-4"	L
d1	258	#5	5'-11"	L
c	18	#4	16'-3"	—
c1	12	#4	8'-4"	—
c2	18	#4	16'-8"	—
c3(E)	18	#4	16'-3"	—
c4(E)	12	#4	8'-4"	—
c5(E)	18	#4	16'-8"	—
X(E)	136	#6	4'-8"	—
CLASS X CONCRETE	C.Y.	135.6		
REINFORCEMENT BARS LB.		12,530		
REINFORCEMENT BARS (EPOXY COATED)	LB.	16,520		
FLOOR DRAINS	EA.	16		

SUPERSTRUCTURE DETAILS

SECTION 125-BR
F.A. RTE. 17 ILL. RTE 64
DE KALB COUNTY
STATION 10+00.21

WILLET OFMANN & ASSOCIATES, Inc.

REVISIONS

FOR INFORMATION ONLY

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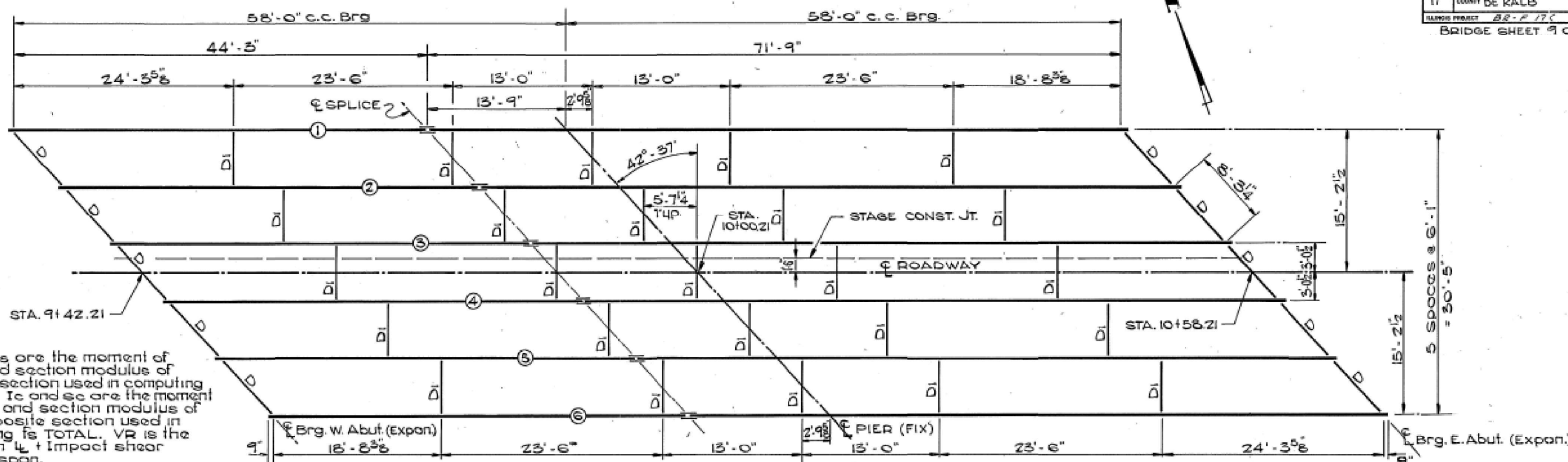
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PLOT DATE = 11/4/2021	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
FOR STRUCTURE NO. 019-0012

SCALE: SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	28	23
			CONTRACT NO. 66M02	
ILLINOIS FED. AID PROJECT				



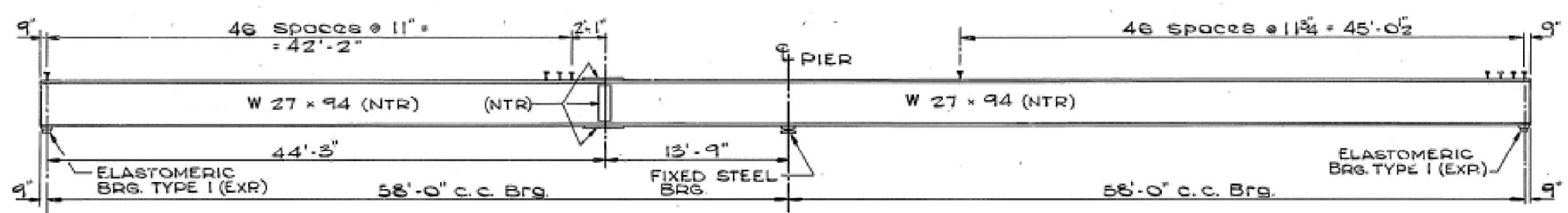
I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s TOTAL. I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s TOTAL. VR is the maximum $U_L +$ Impact shear range in span.

	ABUTMENT	PIER
R_D k	22.2	70.8
R_U k	325	325
Imp k	8.9	10.5
R_{TOTAL} k	65.6	119.8

	0.4 SR 1&2	PIER
I_s (in ⁴)	3270	3270
I_c (in ⁴)	9177	
S_s (in ³)	243	243
S_c (in ³)	364	
D (in)	690	991
M_D (k)	211.5	498.0
f_s min-comp (ksi)	10.44	24.80
S_D (in ³)	301	
$M_e D$ (k)	111.3	
M_U (k)	786.8	395.1
M_{imp} (k)	214.8	108.1
TOTAL (k)	1112.9	503.1
f_s -comp (ksi)	36.68	24.84
f_s TOTAL (ksi)	47.12	49.44
VR (k)	44.4 (t)	

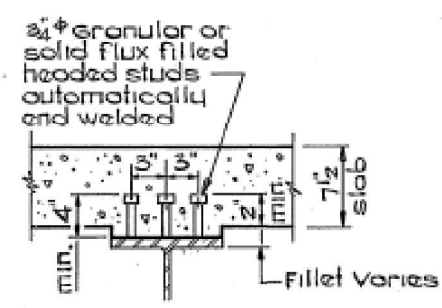
The load factor (1.3) $(@ + \frac{5}{8} (U_L + Imp))$ is used in computing moments and stresses.

FRAMING PLAN
ALL BEAMS W 27x94 (M222)



ELEVATION OF BEAM
(DIAPHRAGMS NOT SHOWN)

NOTE
(NTR) indicates that material which shall conform to the supplemental requirements for Notch Toughness zone 2.



SHEAR STUDS
1692 REQUIRED

*** ELEVATIONS TOP OF BEAMS**

LOCATION	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6
BRG W. ABUT.	829.72	829.86	829.98	830.01	829.94	829.85
SPLICE	829.89	830.02	830.14	830.18	830.08	829.98
PIER	829.93	830.06	830.17	830.18	830.10	830.00
BRG. E. ABUT.	830.09	830.21	830.31	830.31	830.22	830.11

* FOR FABRICATION USE ONLY

STEEL FRAMING

SECTION 125-BR
F.A. RTE. 17, ILL. RTE 64
DE KALB COUNTY
STATION 10+00.21

WILLET OFMANN & ASSOCIATES, Inc.

REVISIONS

FOR INFORMATION ONLY

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PLOT DATE = 11/4/2021	CHECKED - YP	REVISED -
	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
FOR STRUCTURE NO. 019-0012

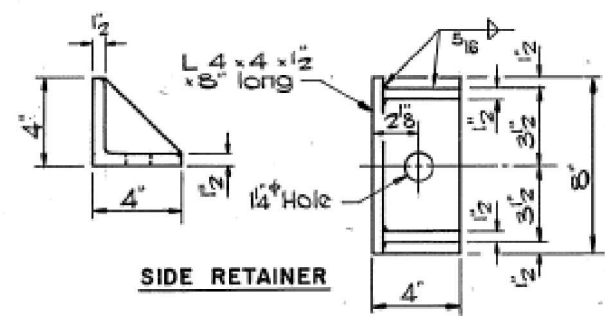
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	28	24
CONTRACT NO. 66M02				
ILLINOIS FED. AID PROJECT				

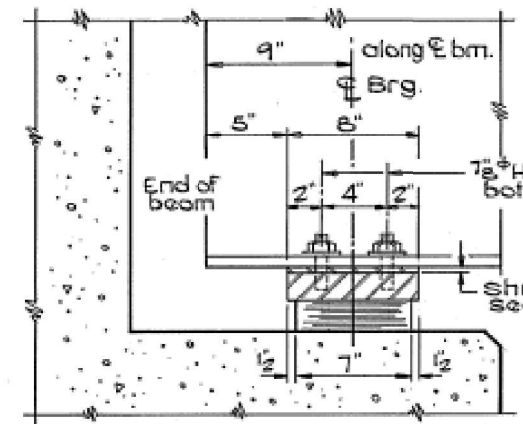
TABLE OF SHIM PLATES

LOCATION	SIZE
WEST ABUT. BEAM 4	3/8" x 8" x 14"
WEST ABUT. BEAM 5	1/4" x 8" x 14"
PIER BEAM 4	1/8" x 9" x 18 1/2"

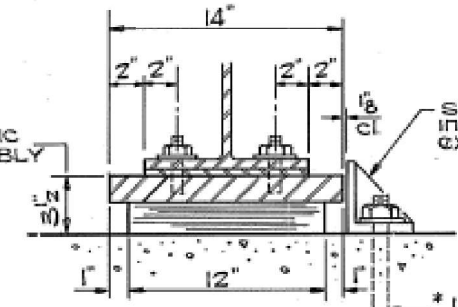
DO NOT PLACE SHIM PLATES UNDER ELASTOMERIC BEARING ASSEMBLIES



SIDE RETAINER



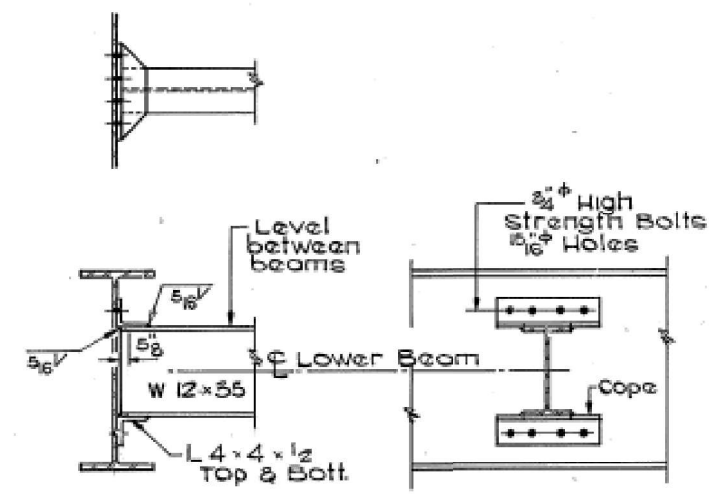
SIDE



END VIEW

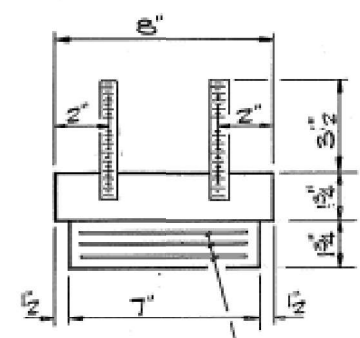


*NOTE
After beams have been erected, holes of expansion bearings shall be drilled and anchor bolts grouted in place.

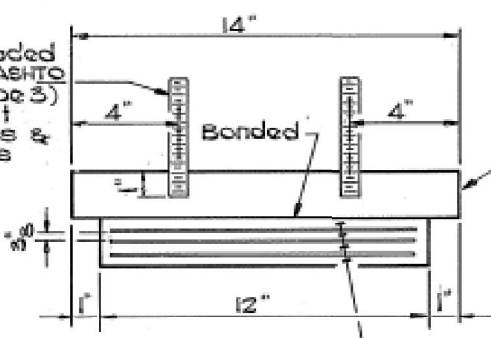


INTERIOR DIAPHRAGM D1
25 REQUIRED

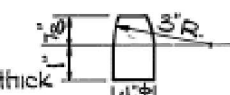
NOTE
High strength bolts shall conform to AASHTO M 164 Type 3.
Hardened washers shall be used over all 5/16\"/>



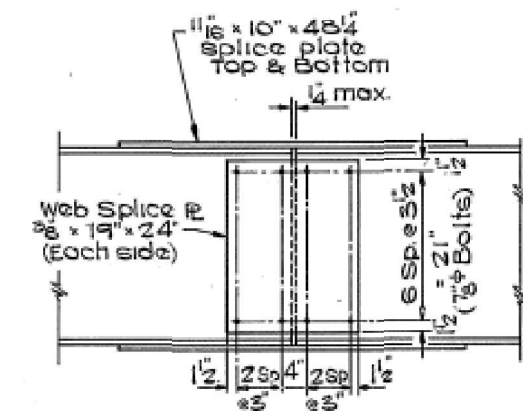
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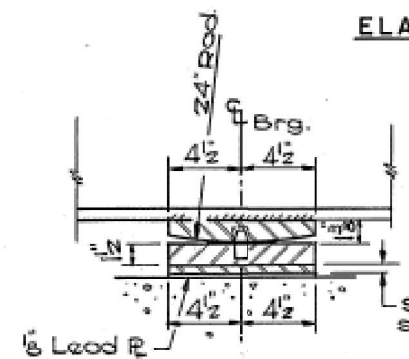
ELASTOMERIC BEARING AT ABUTMENTS



PIN TLE



SP LICE DETAIL

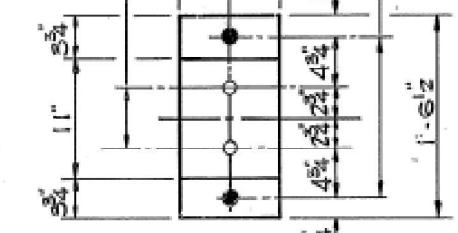


BEARING DETAIL AT PIER

Anchor bolts to be grouted into drilled holes after beams are in place or built into Pier cap.

1 1/8\"/>

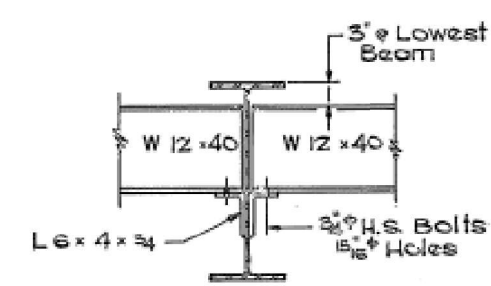
1 1/2\"/>



PLAN

BILL OF MATERIAL - BEARINGS

ITEM	QUANT.
ELASTOMERIC BEARING ASSEMBLIES, TYPE I	EACH 12



END DIAPHRAGM D
10 REQUIRED

STRUCTURAL STEEL DETAILS AND BEARINGS

SECTION 125-BR
F.A. RTE. 17 ILL. RTE 64
DE KALB COUNTY
STATION 10+00.21

FOR INFORMATION ONLY

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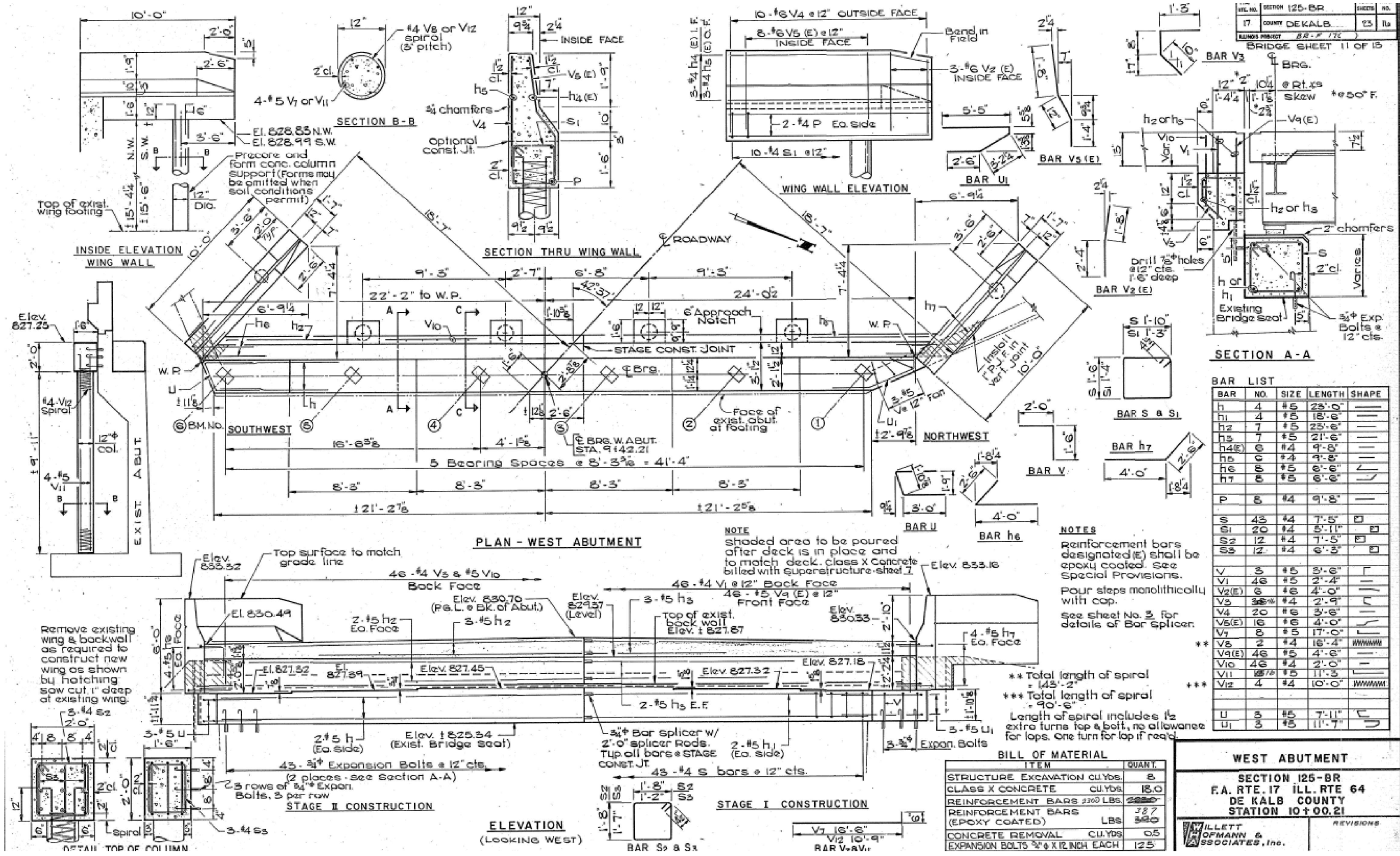
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PLOT SCALE = 100,0000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 11/4/2021	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
FOR STRUCTURE NO. 019-0012

SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	28	25
CONTRACT NO. 66M02				
ILLINOIS FED. AID PROJECT				



BAR NO.	SIZE	LENGTH	SHAPE
h	4	#5	23'-0"
h1	4	#5	18'-6"
h2	7	#5	23'-6"
h3	7	#5	21'-6"
h4(E)	6	#4	9'-8"
h5	6	#4	9'-8"
h6	8	#5	6'-6"
h7	8	#5	6'-6"
P	8	#4	9'-8"
S	43	#4	7'-5"
S1	20	#4	5'-11"
S2	12	#4	7'-5"
S3	12	#4	6'-3"
V	3	#5	3'-6"
V1	46	#5	2'-4"
V2(E)	6	#6	4'-0"
V3	38	#4	2'-9"
V4	20	#6	3'-6"
V5(E)	16	#6	4'-0"
V7	8	#5	17'-0"
** V8	2	#4	16'-4"
V9(E)	46	#5	4'-6"
V10	46	#4	2'-0"
V11	87/8	#5	11'-3"
*** V12	4	#4	10'-0"
U	3	#5	7'-11"
U1	3	#5	11'-7"

NOTES
 reinforcement bars designated (E) shall be epoxy coated. See Special Provisions.
 Four steps monolithically with cap.
 See sheet No. 3 for details of Bar Splicer.

** Total length of spiral = 143'-2"
 *** Total length of spiral = 90'-6"
 Length of spiral includes 1/2 extra turns top & bott, no allowance for laps. One turn for lap if req'd.

ITEM	QUANT.
STRUCTURE EXCAVATION CU.YDS.	8
CLASS X CONCRETE CU.YDS.	18.0
REINFORCEMENT BARS #360 LBS.	2220
REINFORCEMENT BARS (EPOXY COATED) LBS.	387
CONCRETE REMOVAL CU.YDS.	05
EXPANSION BOLTS 3/4" X 12 INCH EACH	125

WEST ABUTMENT
SECTION 125-BR
 F.A. RTE. 17 ILL. RTE 64
 DE KALB COUNTY
 STATION 10+00.21

WILLET OFMANN & ASSOCIATES, Inc.

USER NAME = woodshank1	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,0000' / 1in.	CHECKED - YP	REVISED -
PLOT DATE = 11/4/2021	DATE - 8/6/2021	REVISED -

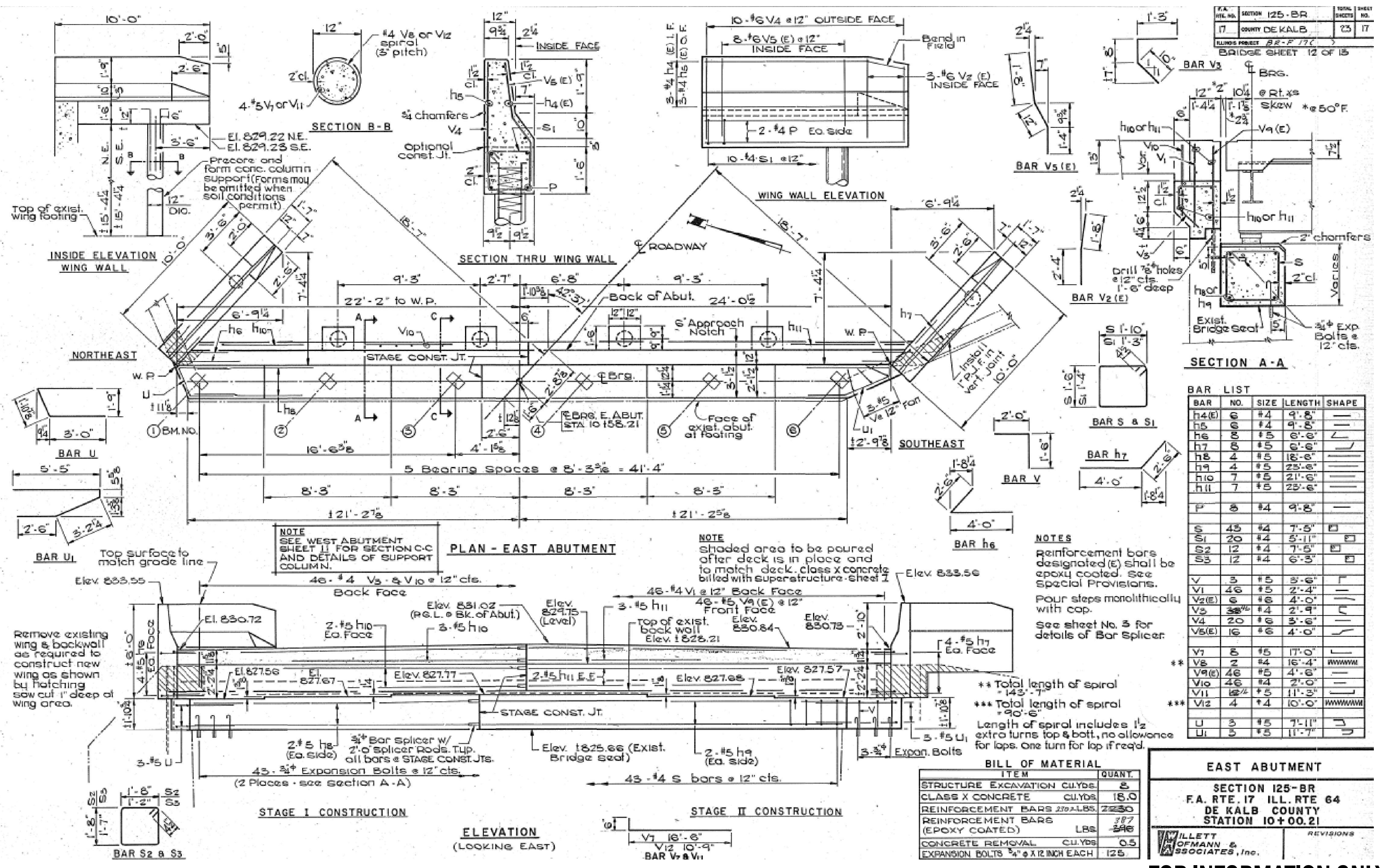
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

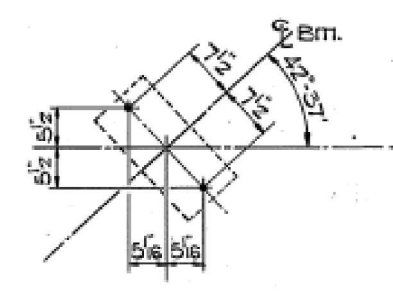
EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
 FOR STRUCTURE NO. 019-0012

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	28	26
CONTRACT NO. 66M02				
ILLINOIS FED. AID PROJECT				

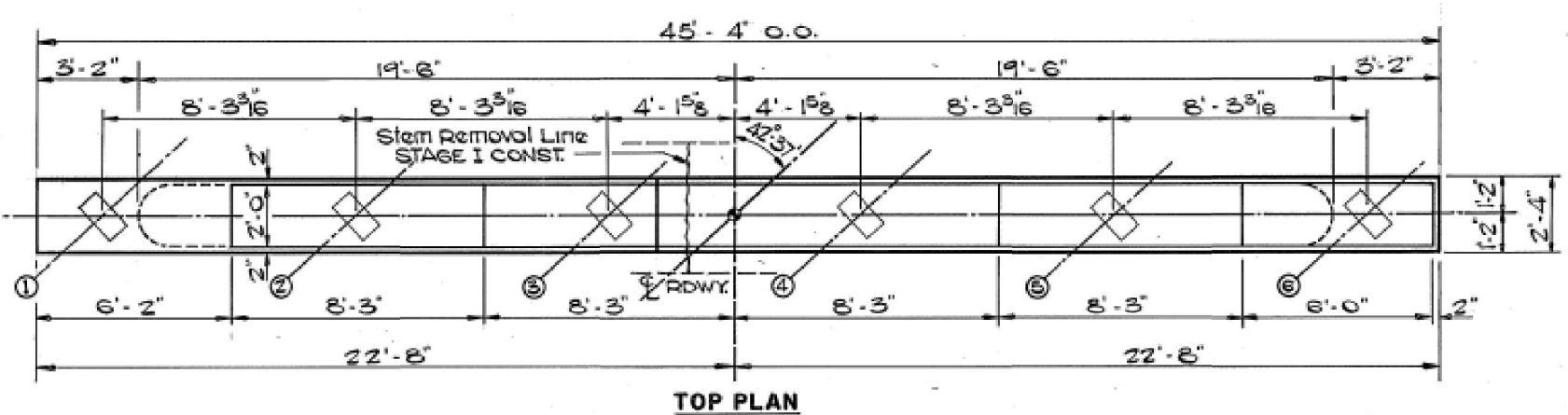
FOR INFORMATION ONLY

MODEL: Default
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 PLOT SCALE: 100,0000' / 1in.
 PLOT SHEET: 26 OF 28
 PLOT AREA: 11.0000' X 17.0000'
 PLOT DIMENSIONS: 11.0000' X 17.0000'
 PLOT OFFSET: 0.0000' X 0.0000'
 PLOT ORIGIN: 11.0000' X 17.0000'
 PLOT CENTER: 11.0000' X 17.0000'
 PLOT ANGLE: 0.0000°
 PLOT ROTATION: 0.0000°
 PLOT SCALE: 100,0000' / 1in.
 PLOT SHEET: 26 OF 28
 PLOT AREA: 11.0000' X 17.0000'
 PLOT DIMENSIONS: 11.0000' X 17.0000'
 PLOT OFFSET: 0.0000' X 0.0000'
 PLOT ORIGIN: 11.0000' X 17.0000'
 PLOT CENTER: 11.0000' X 17.0000'
 PLOT ANGLE: 0.0000°
 PLOT ROTATION: 0.0000°

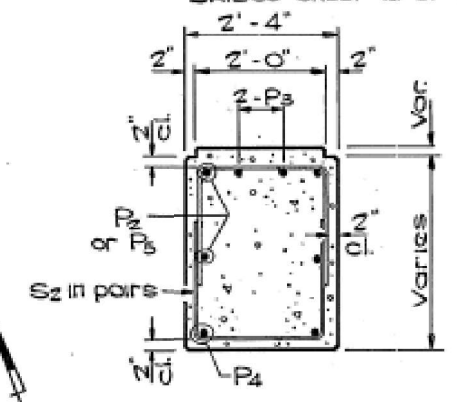




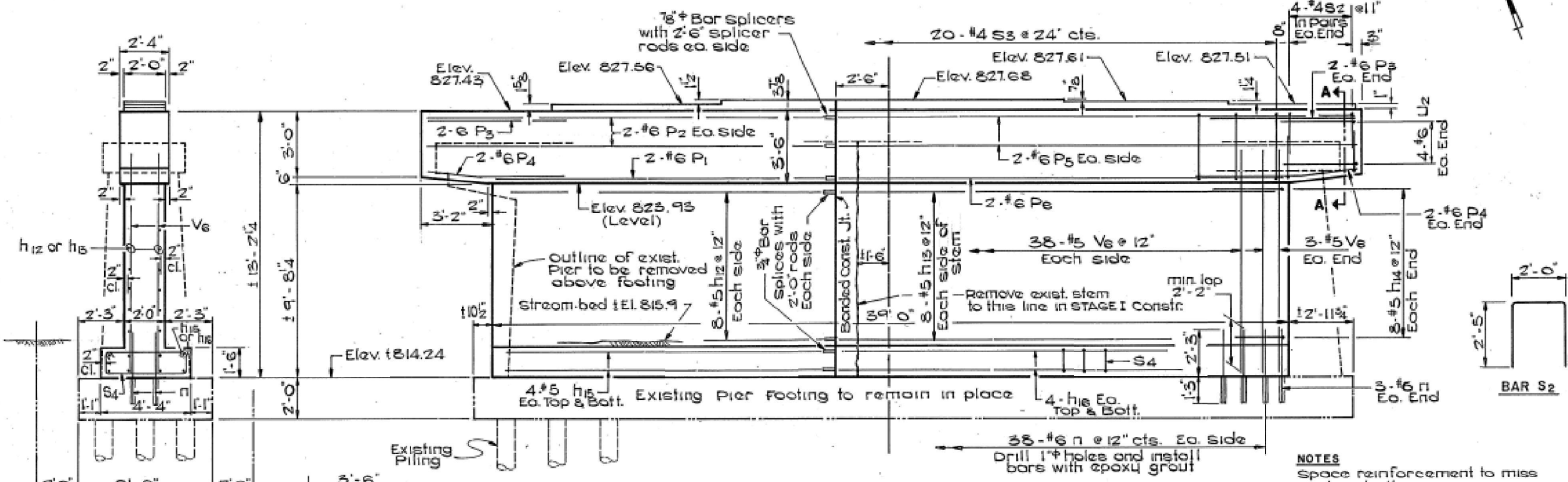
1st ANCHOR BOLT LAYOUT



TOP PLAN



SECTION A-A
TYPICAL EACH END



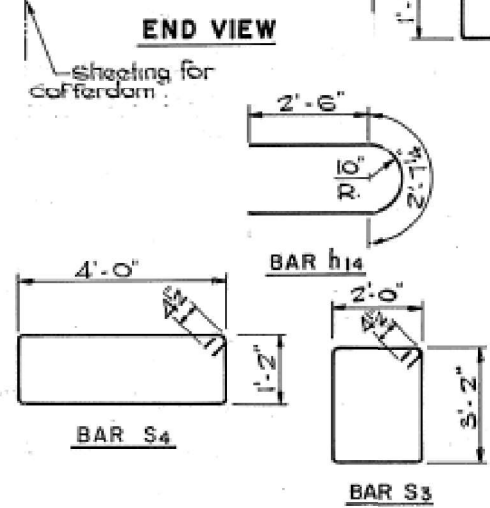
ELEVATION

- NOTES**
- Space reinforcement to miss anchor bolts.
 - All edges shall have std $\frac{3}{4}$ chamfers.
 - Pour steps monolithically with cop.
 - See Sheet No. 3 for Bar Splicer details.

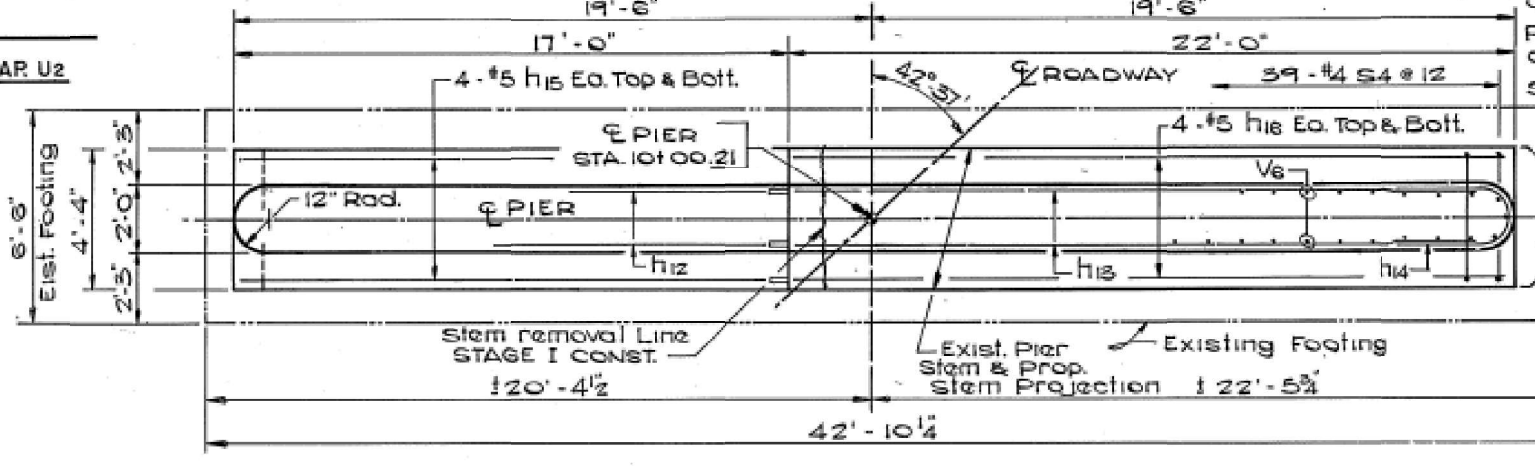
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h12	16	#5	15'-3"	—
h13	16	#5	20'-3"	—
h14	16	#5	7'-8"	U
h15	8	#5	16'-6"	—
h16	8	#5	21'-6"	—
n	82	#6	3'-6"	—
P1	2	#6	16'-6"	—
P2	4	#6	19'-4"	—
P3	4	#6	9'-6"	—
P4	4	#6	6'-0"	—
P5	4	#6	24'-6"	—
P6	2	#6	21'-6"	—
S2	16	#4	6'-10"	□
S3	20	#4	11'-1"	□
S4	39	#4	11'-1"	□
U2	8	#6	8'-11"	□
V6	82	#5	11'-0"	—

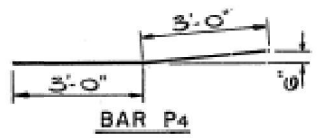
CLASS X CONCRETE	C.Y.	46.9
REINFORCEMENT BARS LB.		3500
COFFERDAM	EA.	1
COFFERDAM EXCAV C.Y.		24.9
CONCRETE REMOVAL	C.Y.	64.5



END VIEW



PLAN VIEW



PIER DETAILS

SECTION 125-BR
F.A. RTE. 17 ILL. RTE 64
DE KALB COUNTY
STATION 10+00.21

WILLET OFMANN & ASSOCIATES, Inc. REVISIONS

FOR INFORMATION ONLY

USER NAME = woodshank1	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - YP	REVISED -
PLOT DATE = 11/4/2021	DATE - 8/6/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
FOR STRUCTURE NO. 019-0012

SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	(125BR)BRR	DEKALB	28	28
CONTRACT NO. 66M02				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE: 125BR_PierDetail.dwg
 PLOT: 11/4/2021 10:00:00 AM
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 PLOT DATE: 11/4/2021